5. HydroBase Operations

Most of the information provided in the windows in HydroView_MPE and RiverPro are stored and edited in the Hydrologic Database (HydroBase) component of the WHFS. This chapter describes how these data can be accessed, reviewed, and edited. The windows on the following pages are used in the operation of HydroBase. Where appropriate, a source window(s) (the window used to access the featured window) is provided in the background as a reference.

As noted in Chapter 1, this manual addresses some of the basic functional uses of HydroBase - the routine display, editing, and addition of hydrometeorological data and information. The manual does not address the functional aspects of HydroBase in detail but provides an overview of the various screens that can be accessed in order to review or edit data in the database.

Maintenance of the static information in HydroBase is generally the responsibility of the Service Hydrologist, Hydro Focal Point, or designee. Access to HydroBase should be limited in the WFO through use of the **optional password function** in order to ensure its integrity. Additional information regarding the password function is provided in the Getting Started section and in the **HydroBase Administration Window**.

Note that many of the window options allow making a selection either by using the mouse (point-and-click) or by using a "hot key" (a one or two key shortcut to performing an operation; e.g., Ctrl-X can be used to exit from HydroBase). Selections within HydroBase that are not applicable are greyed-out (e.g., the reservoir information menu selection will be greyed-out if a forecast point that is not a reservoir is selected on the station listing display).

Active HELP buttons are provided for the Dam Catalog screens only.

Some screens in HydroBase refer to various data codes for some parameters. These codes are as referenced in ***S**tandard **H**ydrology **E**xchange **F**ormat*, *Weather Service Hydrology Handbook No. 1*.

Troubleshooting HydroBase

Most errors associated with the use of HydroBase will be displayed in a pop-up window or an error dialog shown on the screen. Generally, the pop-up window states the nature of the error (e.g., a date entered in an improper format). The HydroBase application usually continues once the error is corrected.

Getting Started

Method One

1) From the workstation D2D screen, locate the mouse pointer on a dead area (no windows displayed) and single click the right mouse button. The **System Control Menu** will be displayed.

2) Click left mouse button on **HydroApps**. The **Hydrologic Applications Menu** will be displayed.

3) Click left mouse button on **Hydro Database Manager** in the **Hydrologic Applications Menu**. The **HydroBase Root Window** will be displayed.

Method Two

1) From the D2D display, click on **Surface** on the Menu Bar.

2) Click left mouse button on **HydroApps**. A menu will be displayed.

3) Click left mouse button on **Hydro Database Manager**. The **HydroBase Root Window** will be displayed.

Password Function - If the **password option** is in use, a dialog box will be displayed when HydroBase is started, requiring that the password be entered before the **HydroBase Root Window** is activated. If no password is in use, the error dialog box shown in Figure 9 will appear instead, reminding the user to set a password. The password is set under the **Setup/Administration** option accessed through the **HydroBase Root Window**.

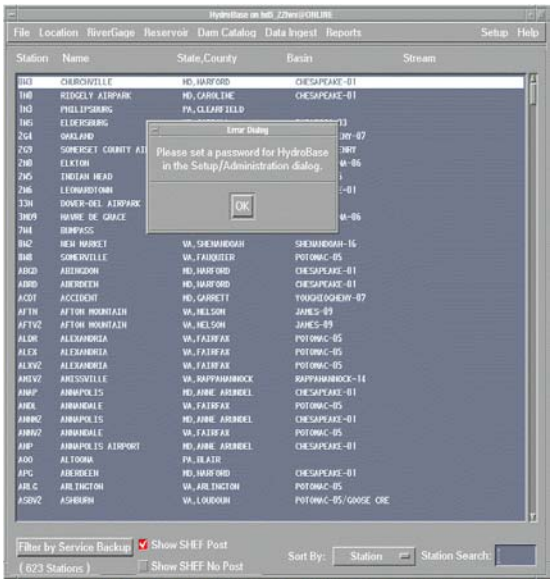


Figure 9. HydroBase Root Window with Password Reminder Message

Exiting HydroBase

From the **HydroBase Root Window**, select **File** (Menu Bar), then *Click* on **Exit**.

HydroBase Windows

The following pages present the various windows used in the operation of HydroBase. A list of those windows is provided below.

HydroBase Windows

Window	Use	Page
HydroBase Root Window	Starting point to access all operations within HydroBase	5-7
Preferences Window	Customize the display features of the HydroBase windows	5-9
Add Location Window	Add a new location to the database	5-11
Modify Location Window	View and edit location data from the selected station	5-12
Contacts Window	View and edit contact data and information from the selected station	5-13
County/Zone UGC Window	View and edit county and zone Universal Generic Code (UGC) information from the selected station	5-14
Data Sources Window	View and edit data source information (DCP, Observer, and Telemetry) from the selected station	5-15
River Gage Window	View and edit river gage information and data from the selected station	5-17
Flood Category Window	View and edit flood category definitions for a selected station	5-18
Impact Statement Window	View and edit impact statement definitions for a selected station	5-19
Flood Damage Window	View and edit flood damage statements for a selected station	5-20
Rating Curve Window	View and edit the rating curve for a selected station	5-21
Unit Hydrograph Window	View and edit unit hydrograph information for a selected station	5-22
Crest History Window	View and edit data and information for historical crests for a selected station	5-23
Low Water Window	View and edit data and information for historical low water occurrences for a selected station	5-24

HydroBase Windows

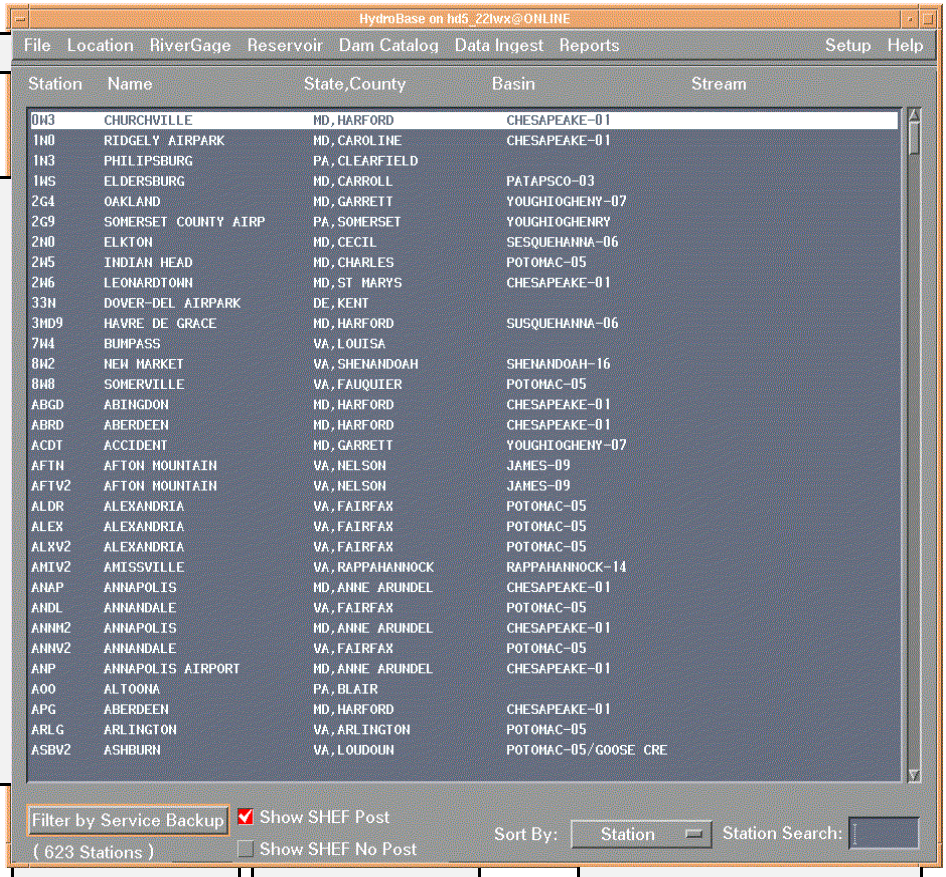
HydroBase Windows

Window	Use	Page
Text Reports Window	View E-19 reports, cooperative observer reports, a sorted station list, a station classification list, and a service backup list	5-43
Administration Window	View and edit program administration information and **set the HydroBase access password**	5-45
Cities Window	View and edit city and town reference information	5-46
Reference Fields Window	View and edit the data contributors reference information (e.g., data sources, measurement devices, equipment owners, sponsors, and supporting offices)	5-47
States/Counties/Zones Window	View and edit state, county, and zone reference information	5-48
RiverPro General Parameters Window	View and edit various RiverPro parameters	5-49
RiverPro Forecast Groups/Points Window	Define forecast groups and order the groups and their forecast points for tailoring RiverPro displays and generated products and to select the primary stage parameter to use for each forecast point	5-50
Radar Locations Window	View and edit information for radars within the HSA	5-51
Stage II Parameters Window	View and edit data and information for Stage II parameters for selected radars within the HSA	5-52
Areal Definitions Window	View and edit areal definition data and information for zones, counties, basins, and reservoirs within the HSA	5-53
Vector Definitions Window	View and edit vector definition data and information for rivers, streams, highways, and roads within the HSA	5-54
NWR Transmitter Window	View and edit NOAA Weather Radio (NWR) transmitter information	5-55
Time Series Group Configuration Window	Customize time series displays for Group mode	5-56

HydroBase Root Window - Starting point to access all operations within HydroBase including station selection.

Menu Bar.

Text Display - station listing.



Filter Options (Filter by WFO list, Primary list, or Secondary list).

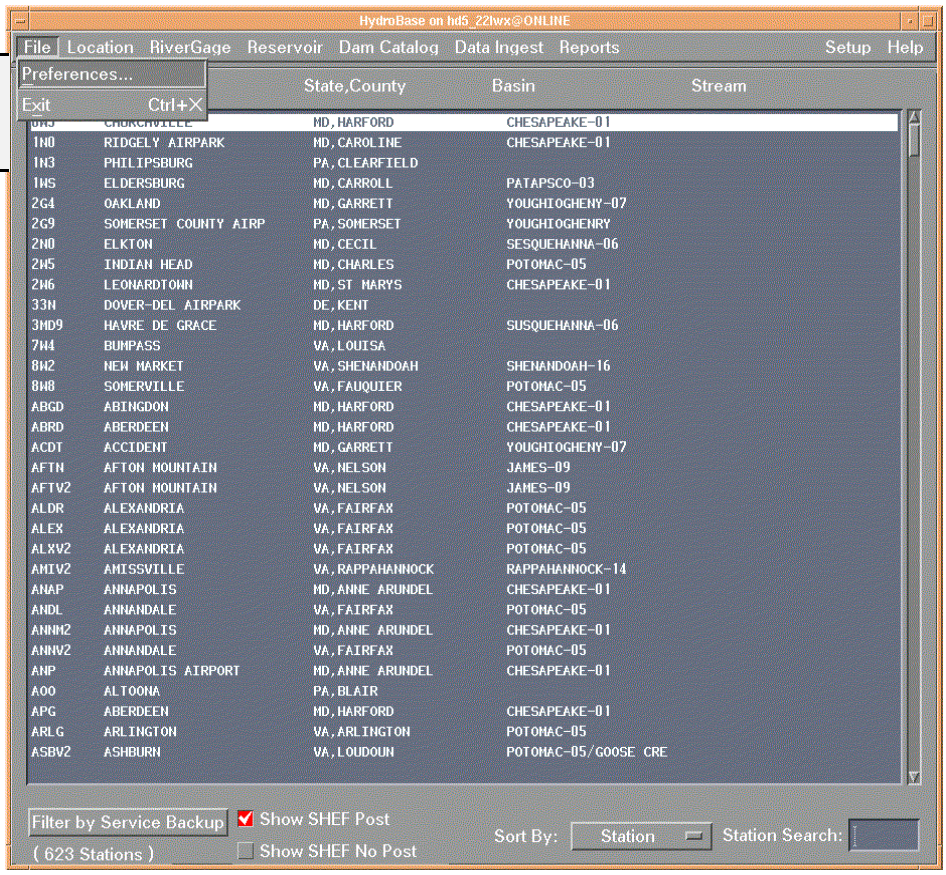
SHEF Display Options (Show SHEF Post or Show SHEF No Post).

Sort and Search Utilities (Sort by Station, Name, or County; Search by Station ID).

Notes: **D**ue to the large volume of data and information accessible by HydroBase, data can only be viewed and edited from one station at a time.

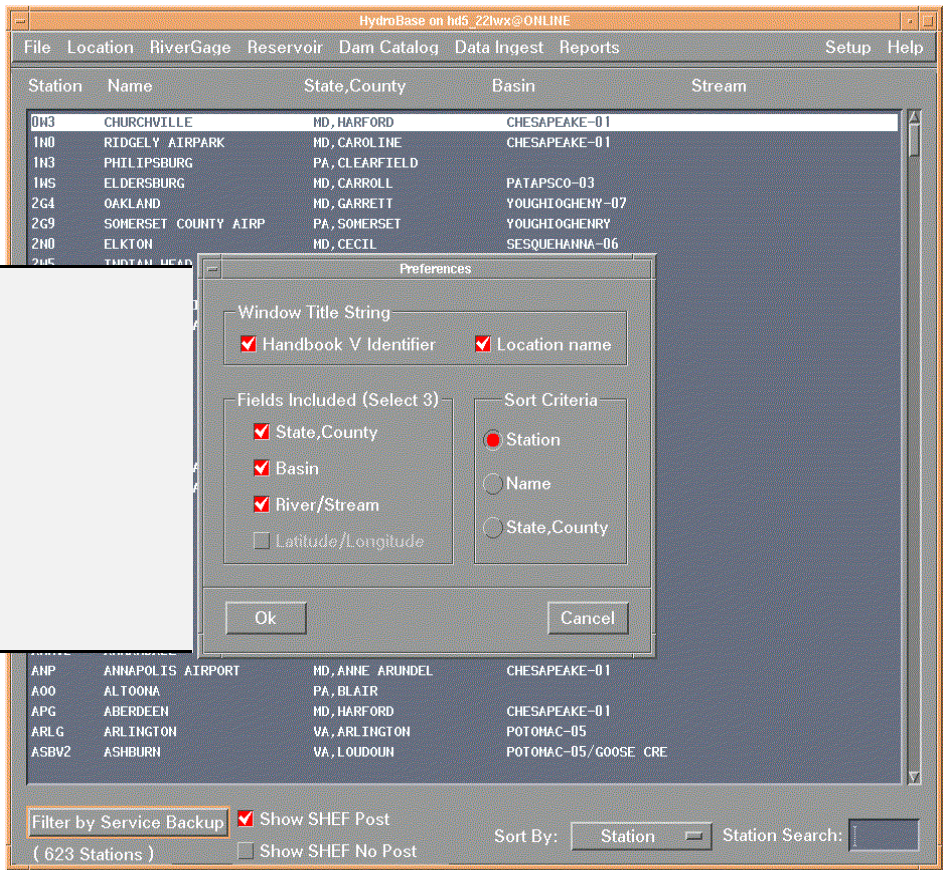
HydroBase Root Window (File selected from the Menu Bar) - Use this selection to define **Root Window** preferences and to exit from HydroBase.

Select Root Window preferences or exit HydroBase.



Access this selection from the **Root Window** by *Clicking* on **File**.

Preferences Window - Use this selection to customize the display features of the HydroBase windows.



Select preferences.

Access this selection from the **Root Window** by *Clicking* on **File**, **Preferences**.

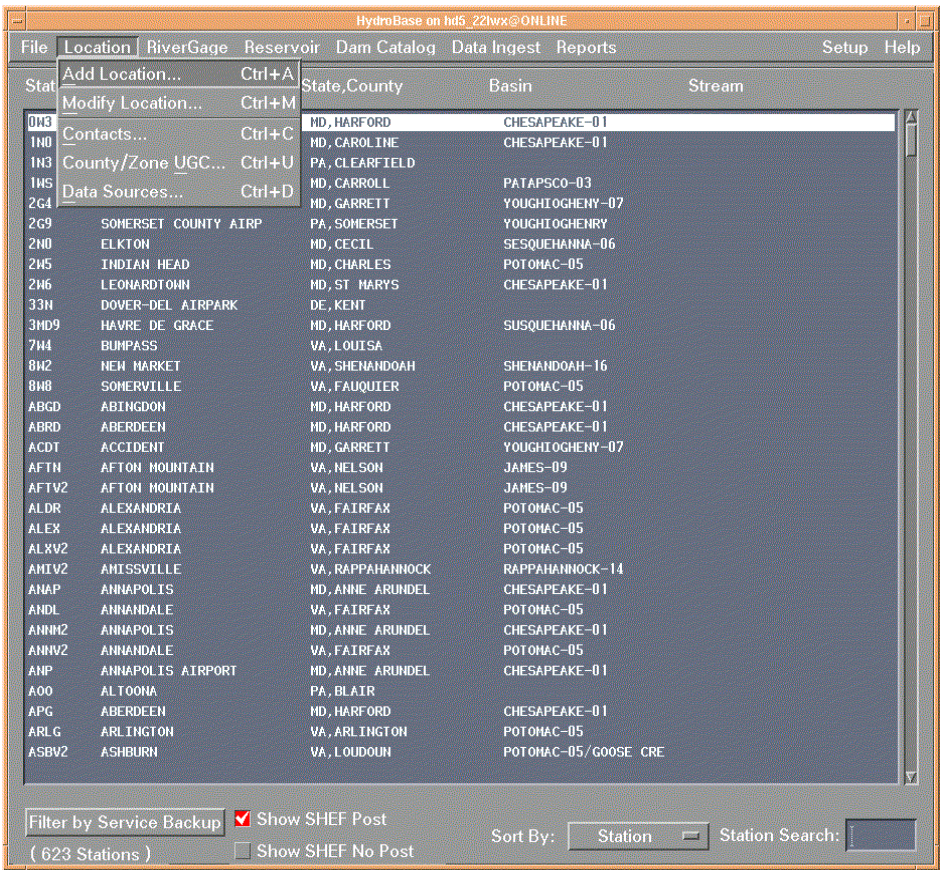
Notes:

The Window Title String selection determines whether the screens viewed in HydroBase have the station Handbook V Identifier (CHB5 ID) and/or the location name displayed at the top of the window.

Due to display width restrictions, a maximum of three additional data fields can be displayed in the main window.

Display lists may be sorted by station ID, by name, or by State, County.

HydroBase Root Window (Location selected from the Menu Bar) - Use this selection to add, review, and edit location data for a selected station, including contacts, universal generic code (UGC), and data sources information.



Access this selection from the **Root Window** by *Clicking* on **Location**.

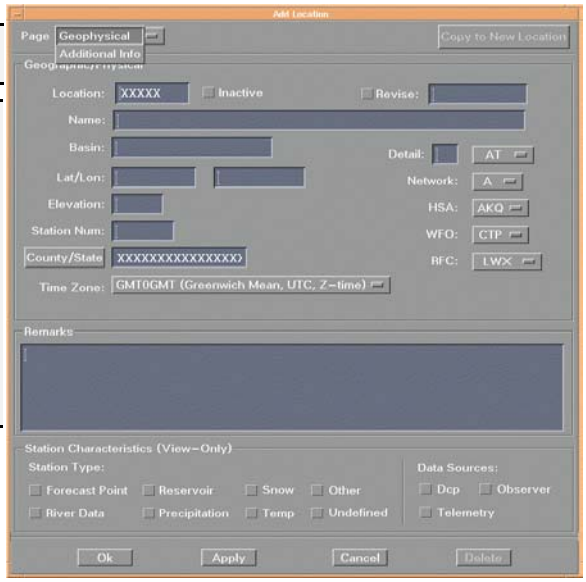
Add Location Window - Use this selection to add a new location to the database. Shown are the Geophysical and Additional Info screens (both are used to add a new location).

Select Geophysical (this screen) or Additional Info (bottom screen).

Complete as required to add a new location to the database.

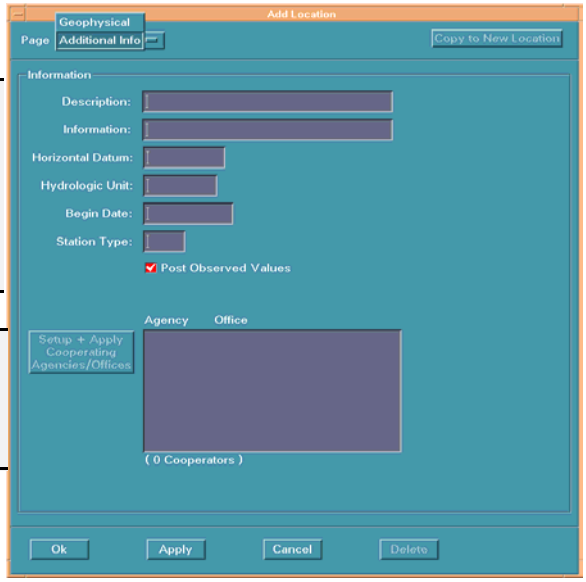
Copy to New Location is not used for this application.

Remarks can be used to clarify gage location, for example.



Additional Info screen - complete as required to add a new location to the database.

Setup and Apply Cooperating Agencies - complete to define and associate additional agencies or offices with a station location.



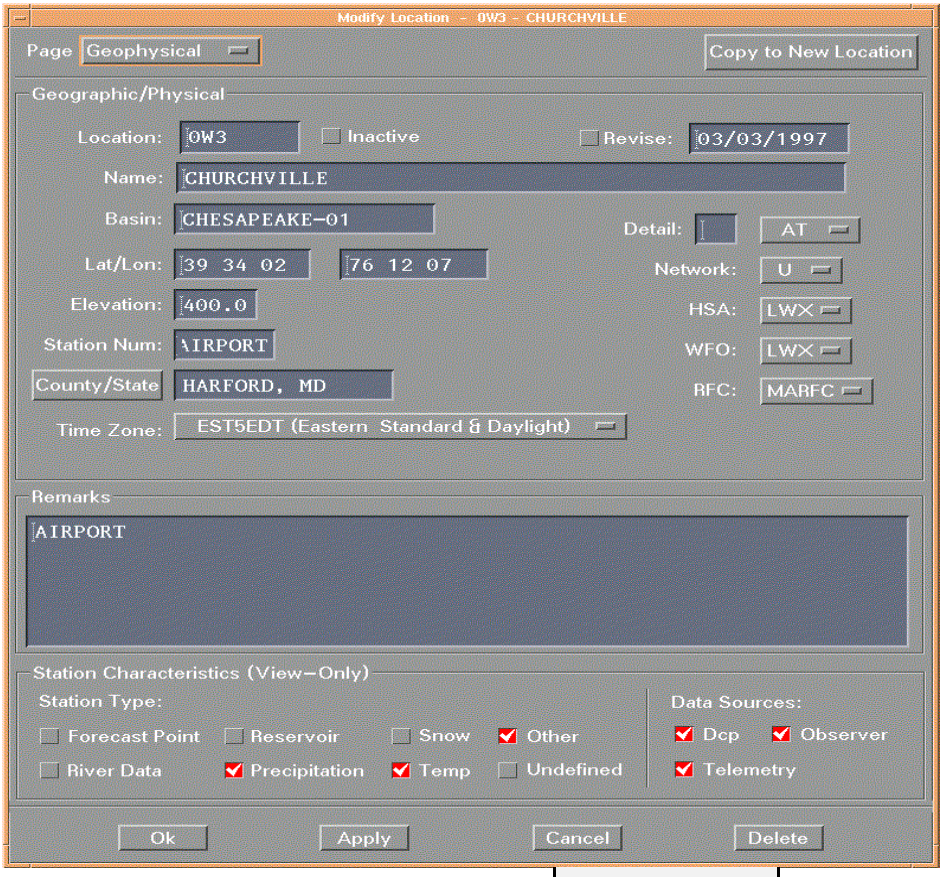
Access this selection from the **Root Window** by *Clicking* on **Location, Add Location**.

Notes: ***C**lick* OK to incorporate changes and close window. *Click* Apply to incorporate changes and keep the window open.

Modify Location Window - Use this selection to view and edit location data from the selected station.

Select Geophysical (screen shown) or Additional Info (same screen as shown for Add Location Window).

Copy to New Location allows saving the data selected to a new station ID without using the Add Location Window.



To delete a location, *Click* on Delete and respond to the confirmation prompt.

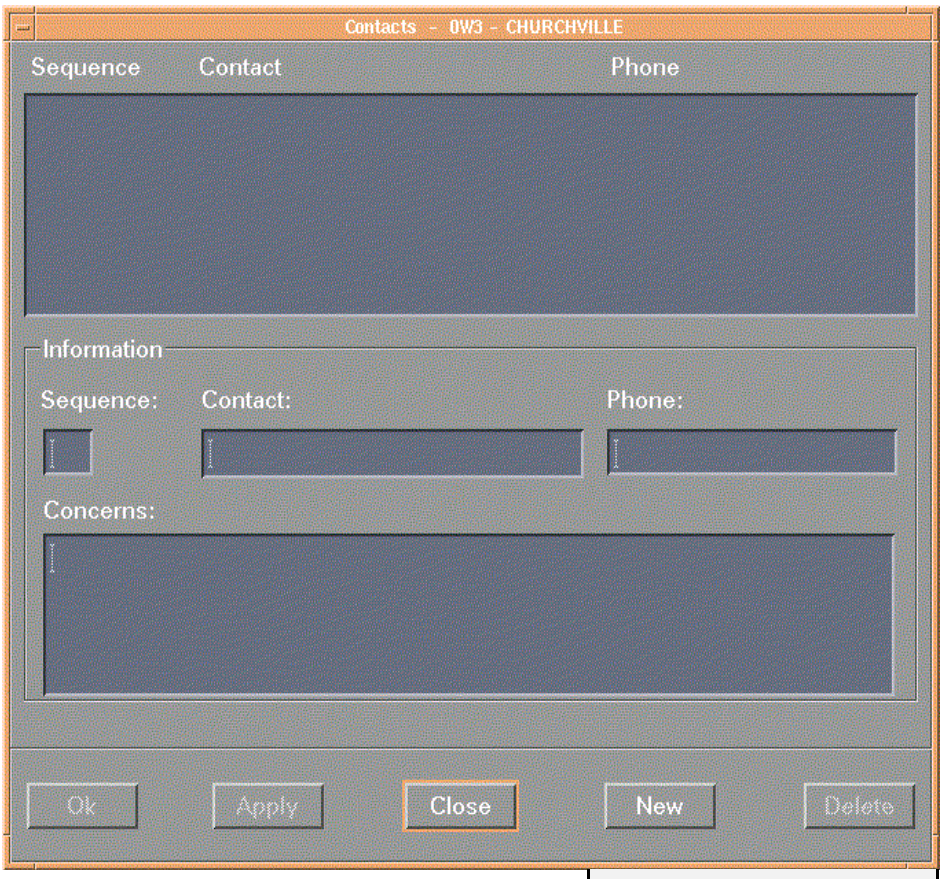
Access this selection from the **Root Window** by *Clicking* on **Location, Modify Location**.

Notes: ***Click*** OK to incorporate changes and close window. *Click* Apply to incorporate changes and keep the window open.

Contacts Window - Use this selection to view and edit contact data and information from the selected station.

Select contact to view information (as shown below).

View and edit contact information.



Click New to add a new record or Delete to delete a selected record.

Access this selection from the **Root Window** by *Clicking* on **Location, Contacts**.

Notes:

***C**lick* OK to incorporate changes and close window. *Click* Apply to incorporate changes and keep the window open.

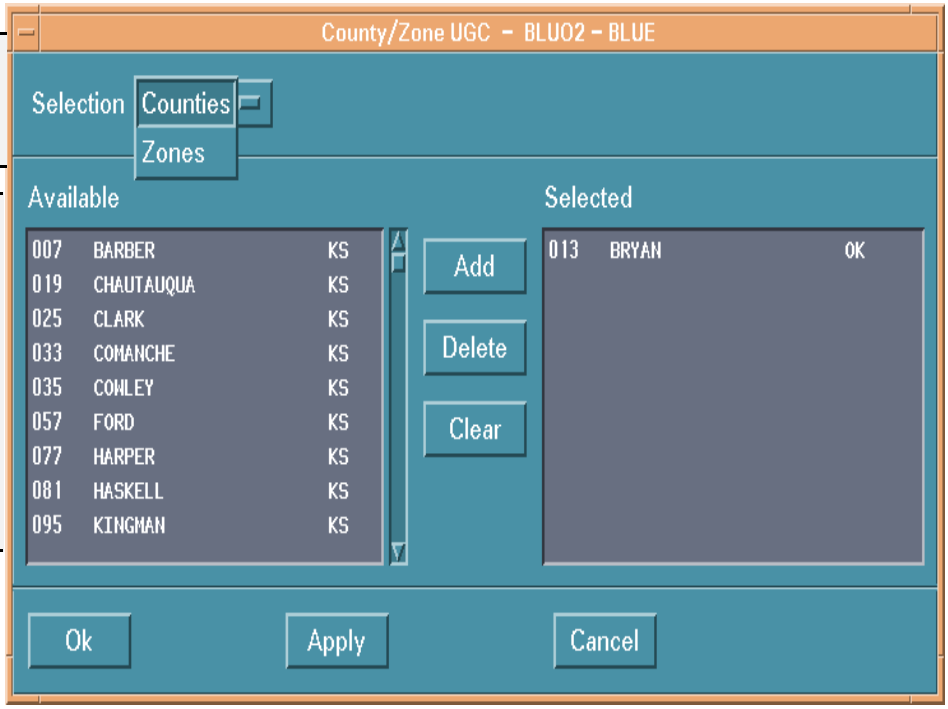
Select New to enter data. This will clear the display of elements.

Modifying the elements and selecting Apply or OK will update the selected record - it will not create a new entry. Use New for a new entry.

County/Zone UGC Window - Use this selection to view and edit county and zone Universal Generic Code (UGC) information from the selected station.

Select Counties or Zones (available and selected information will be displayed below).

Use Add, Delete, or Clear to modify the selected counties or zones for the selected station. Delete will delete the highlighted Selected county or zone. Clear will delete ALL Selected counties or zones.



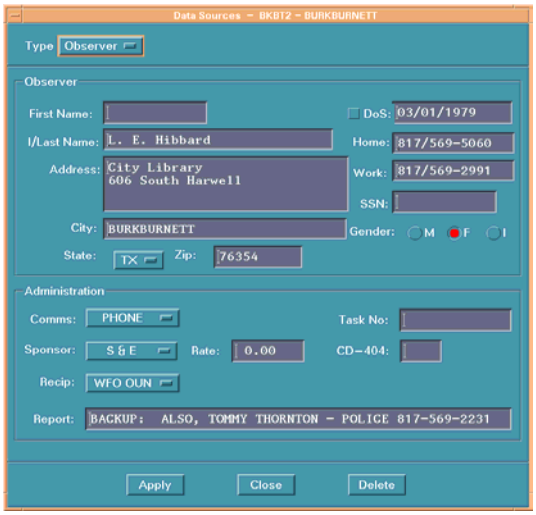
Access this selection from the **Root Window** by *Clicking* on **Location, County/Zone UGC**.

Notes: ***C**lick* OK to incorporate changes and close window. *Click* Apply to incorporate changes and keep the window open.
This information is used by the product formatter, RiverPro, when assembling UGCs for the product header.

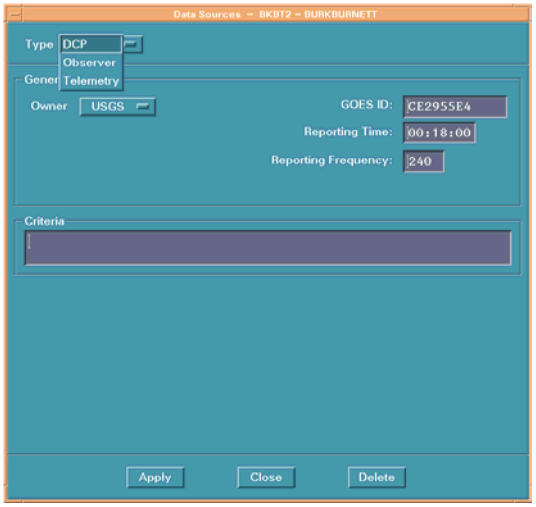
Data Sources Window - Use this selection to view and edit data source information (DCP, Observer, and Telemetry data source types) from the selected station.

View and edit information.

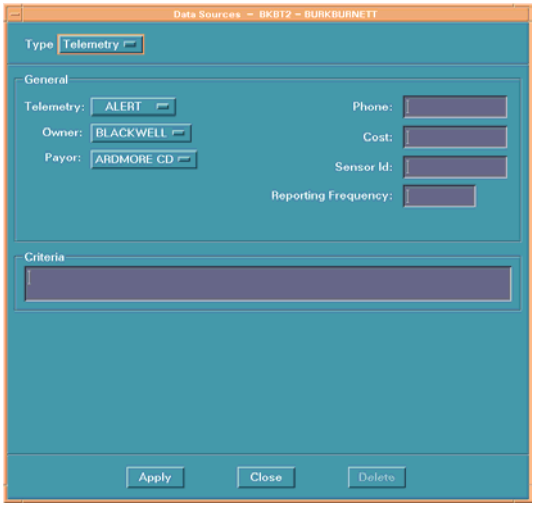
Information such as observer home telephone number, SSN, source cost, and rate are normally optional and are often left blank.



Observer Screen



DCP Screen

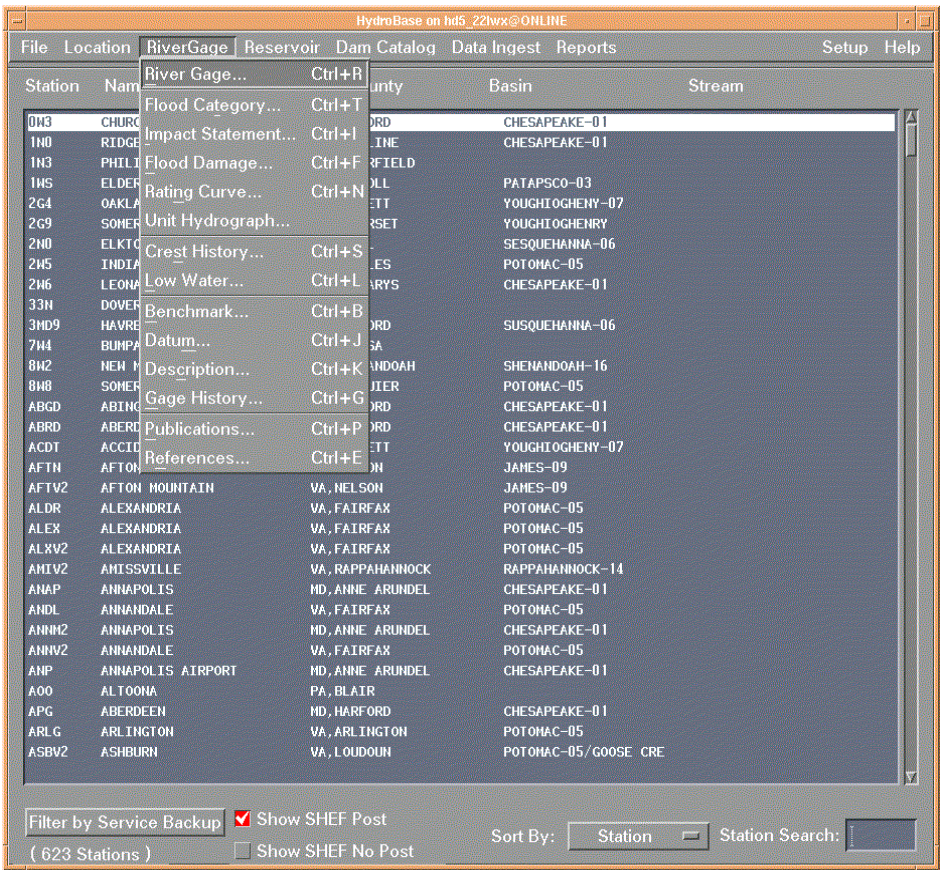


Telemetry Screen

Access this selection from the **Root Window** by *Clicking* on **Location, Data Sources**.

Notes: To delete a data source, *Click* on Delete and respond to the confirmation prompt.
***C**lick* OK to incorporate changes and close window. *Click* Apply to incorporate changes and keep the window open.

HydroBase Root Window (RiverGage selected from the Menu Bar) - Use this selection to view and edit river gage-related information and data from the selected station.



Access this selection from the **Root Window** by *Clicking* on **River Gage.**

River Gage Window - Use this selection to view and edit river gage information and data from the selected station. Shown are the Geophysical and Additional Info screens (both are used to view and modify river gage information and data).

Select Geophysical (this screen) or Additional Info (bottom screen)

View and modify geophysical information and data.

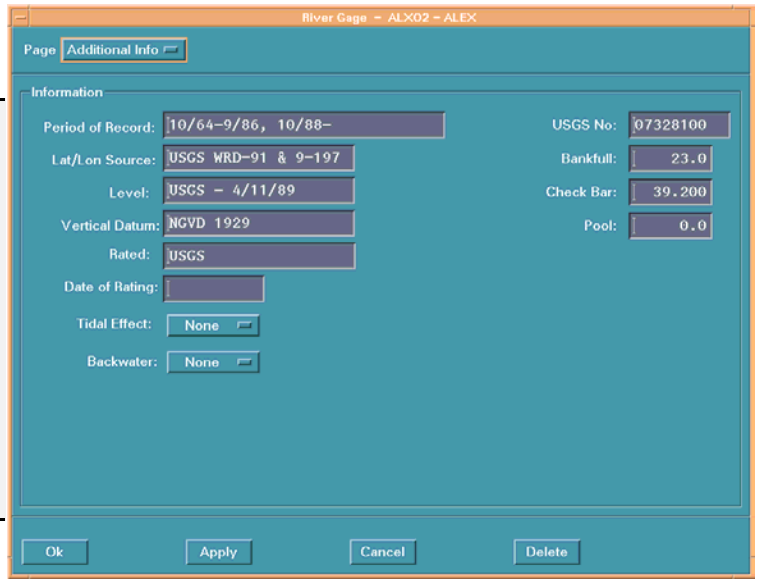
THE FLOOD STAGE AND ACTION STAGE VALUES MUST BE PROVIDED AS THEY ARE IMPORTANT FOR BOTH HYDROVIEW AND RIVERPRO

A FORECAST POINT GROUP ASSIGNMENT MUST BE MADE FOR THE STATION TO BE CONSIDERED FOR RIVERPRO

Select physical element to be used in the HydroView Displays and in RiverPro for variables such as <ObsStg> and <SpecFcstStg>

Select checkbox to include data from latest forecast time series only

View and modify additional information and data



Access this selection from the **Root Window** by *Clicking* on **RiverGage, River Gage**.

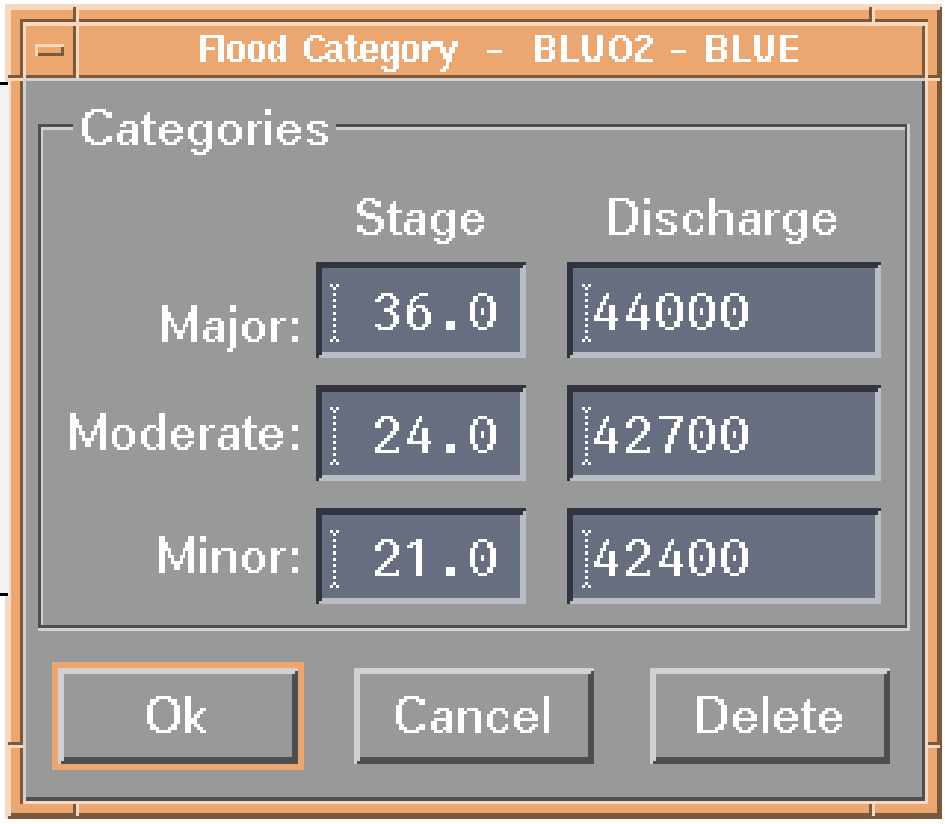
Notes:

To delete a record, *Click* on Delete and respond to the confirmation prompt.
***C**lick* OK to incorporate changes and close window. *Click* Apply to incorporate changes and keep the window open.
The Use Latest Forecast When Computing Maximum Forecast Value checkbox is point-specific. It was moved from the Setup/Riverpro General Parameters menu option.

Flood Category Window - Use this selection to view and edit flood category definitions for a selected station.

View and edit flood category stage and discharge definitions.

THIS INFORMATION IS OF PARTICULAR IMPORTANCE TO RIVERPRO



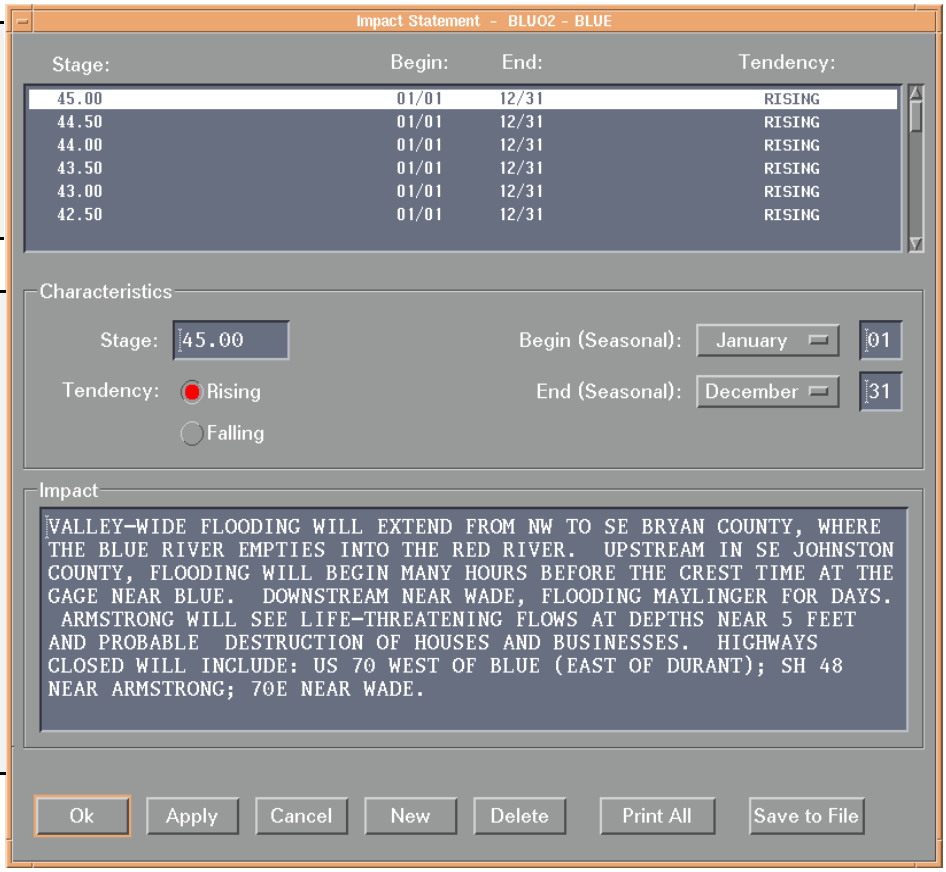
Access this selection from the **Root Window** by *Clicking* on **RiverGage, Flood Category**.

Notes: To delete a record, *Click* on Delete and respond to the confirmation prompt.

Impact Statement Window - Use this selection to view and edit impact statement definitions for a selected station.

Select the stage. The stage characteristics and associated impact statement to view and edit will be displayed below.

View and edit stage characteristics and impact statement. Impact statements are included for each incremental stage increase. Season definitions can be January - December; however, seasonal impacts may be included if areas such as parks are more affected by lower stage levels at various times of the year.



Click New to add a new stage and associated impact statement to the database.

Click Delete to delete stage/impact statement from the database.

Click Print All to make a hard copy of stage characteristics and impact statement for all stages.

Click Save to File to save the stage/impact statements for all stages to a separate file.

Access this selection from the **Root Window** by *Clicking* on **RiverGage, Impact Statement**.

Notes:

***C**lick* OK to incorporate changes and close window. *Click* Apply to incorporate changes and keep the window open.

Select New to enter data. This will clear the display of elements.

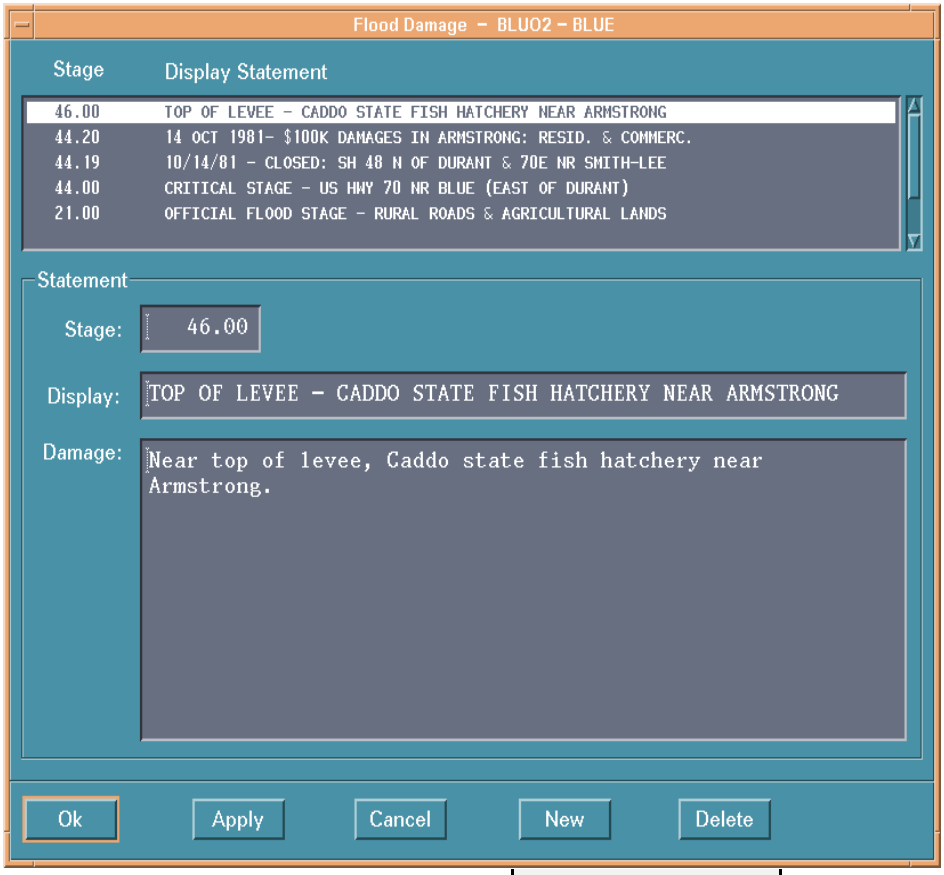
Modifying the elements and selecting Apply or OK will update the selected record - it will not create a new entry. Use New for a new entry.

The impact statements are included directly in the phrases generated by the product formatter, RiverPro.

Flood Damage Window - Use this selection to view and edit flood damage statements for a selected station.

Select the stage. The associated flood damage statement to view and edit will be displayed below.

View and edit flood damage impact statement. Impact statements are included for each incremental stage increase.



Click New to add a new stage and associated impact statement to the database. *Click* Delete to delete stage/impact statement from the database.

Access this selection from the **Root Window** by *Clicking* on **RiverGage, Flood Damage**.

Notes:

***C**lick* OK to incorporate changes and close window. *Click* Apply to incorporate changes and keep the window open.

Select New to enter data. This will clear the display of elements.

Modifying the elements and selecting Apply or OK will update the selected record - it will not create a new entry. Use New for a new entry.

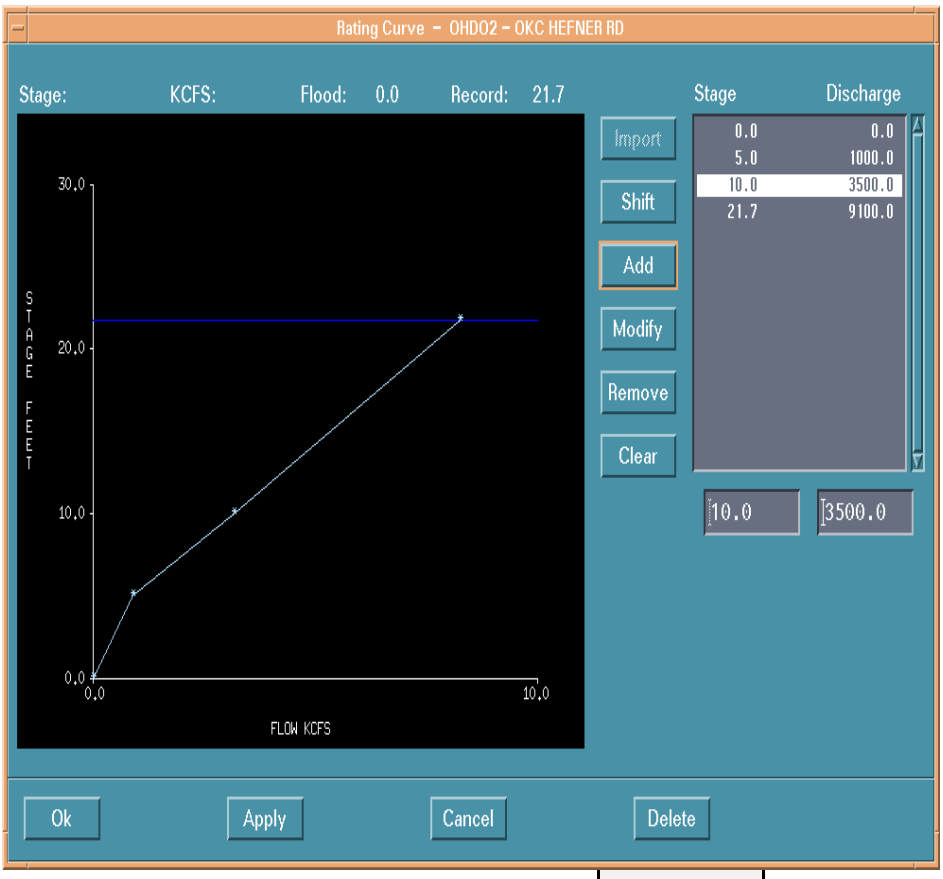
This information is not included in phrases generated by the product formatter, RiverPro. It is for internal use.

Rating Curve Window - Use this selection to view and edit the rating curve for a selected station.

The rating curve can be edited from the table at the right of the curve. Negative stage values can be entered.

Click within the graphical display area to display cross-hairs (values for stage and flow from the intersection of the cross-hairs are provided at the top of the display).

The blue horizontal line references the record stage and the red horizontal line references flood stage.



Deletes the rating curve from the database.

Access this selection from the **Root Window** by *Clicking* on **RiverGage**, **Rating Curve**.

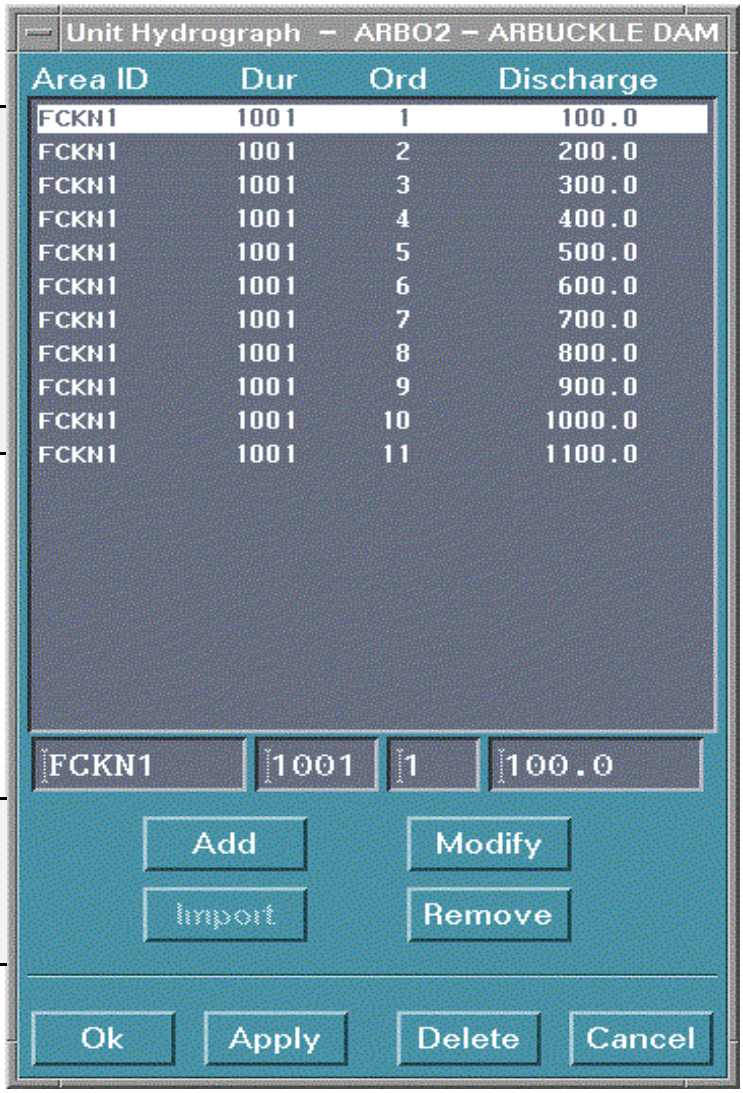
Notes: ***C**lick* OK to incorporate changes and close window. *Click* Apply to incorporate changes and keep the window open.

Unit Hydrograph Window - Use this selection to view and edit the unit hydrograph information for a selected station.

View and modify unit hydrograph information.

The window opens with a display of all unit hydrograph records that exist for the selected station in the Hydro Database. Individual records may be edited, added, and removed within the display without physically updating the database. When the OK, Apply, or Delete button is clicked, the Hydro Database is updated to reflect the current contents of the display (OK or Apply) or to delete all unit hydrograph records for the selected station (Delete with confirmation).

Use Add, Modify, Import, and Remove to add a new record, modify a selected record, import new records from a file, or remove a selected record in the above display of unit hydrograph records for the selected station.



Access this selection from the **Root Window** by *Clicking* on **River Gage, Unit Hydrograph.**

Notes: ***C**lick* OK to incorporate all changes in the list of unit hydrographs list for the selected station and close the window. *Click* Apply to incorporate the changes and keep the window open. *Click* Cancel to cancel all changes made to the list without updating the database. To delete all unit hydrograph records for the selected station, *Click* on Delete and respond to the confirmation prompt.

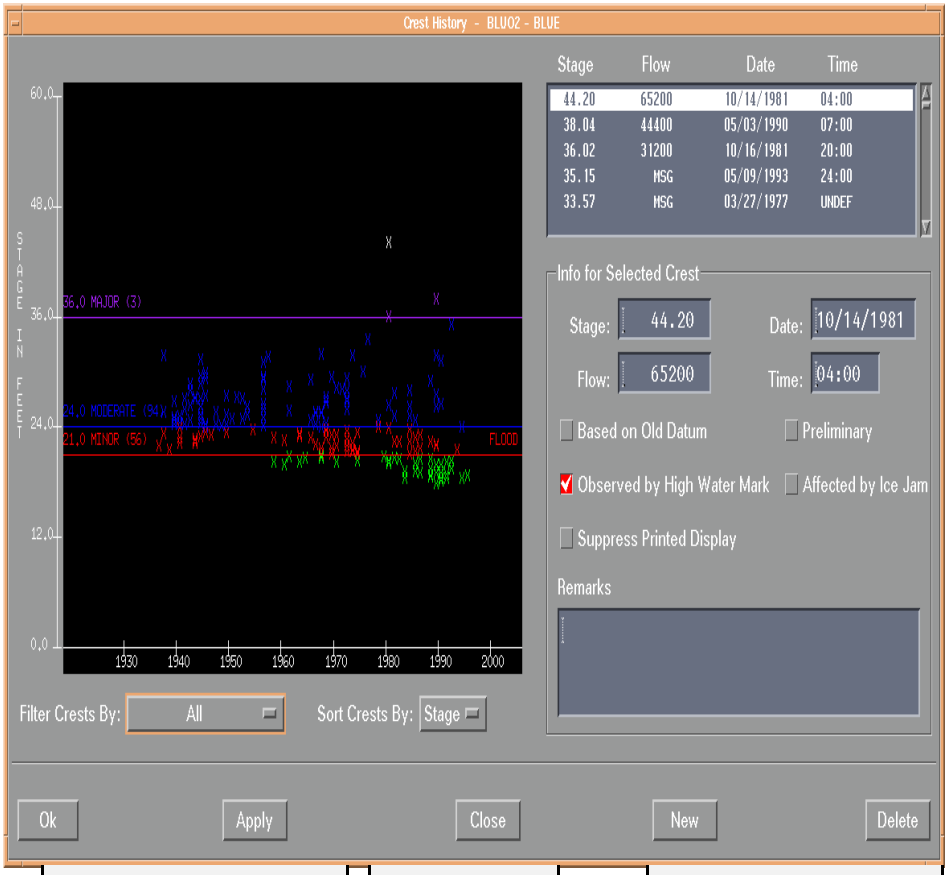
Crest History Window - Use this selection to view and edit data and information for historical crests for a selected station.

Historical crest information can be entered, edited, or deleted using the tabular section of the window.

A stage highlighted in the tabular section will also be highlighted in the graphical section of the window. *Clicking* on a data point in the graphical display will also highlight the stage in the tabular display.

Horizontal lines and data point colors on the graphical display indicate - major flood (purple), moderate flood (blue), minor flood (red) and action level (yellow).

Observation basis definitions - Old Datum (based on different input data), High Water (data from high water mark), Ice Jam (crest result of ice jam), Preliminary (crest not verified), and Suppress Printed Display (suppress data in Text Report E-19 crest history printout).



Filter options include All (all data points displayed), Above Action Stage (only data points above the action level are displayed), Below Action Stage (only data points below the action level are displayed).

Sort options include Stage, Date, and Flow.

Click New to add a new record or Delete to delete a selected record.

Access this selection from the **Root Window** by *Clicking* on **RiverGage, Crest History**.

Notes:

***C**lick* OK to incorporate changes and close window. *Click* Apply to incorporate changes and keep the window open. *Click* Close to close the window (does not automatically incorporate changes).

Select New to enter data. This will clear the display of elements.

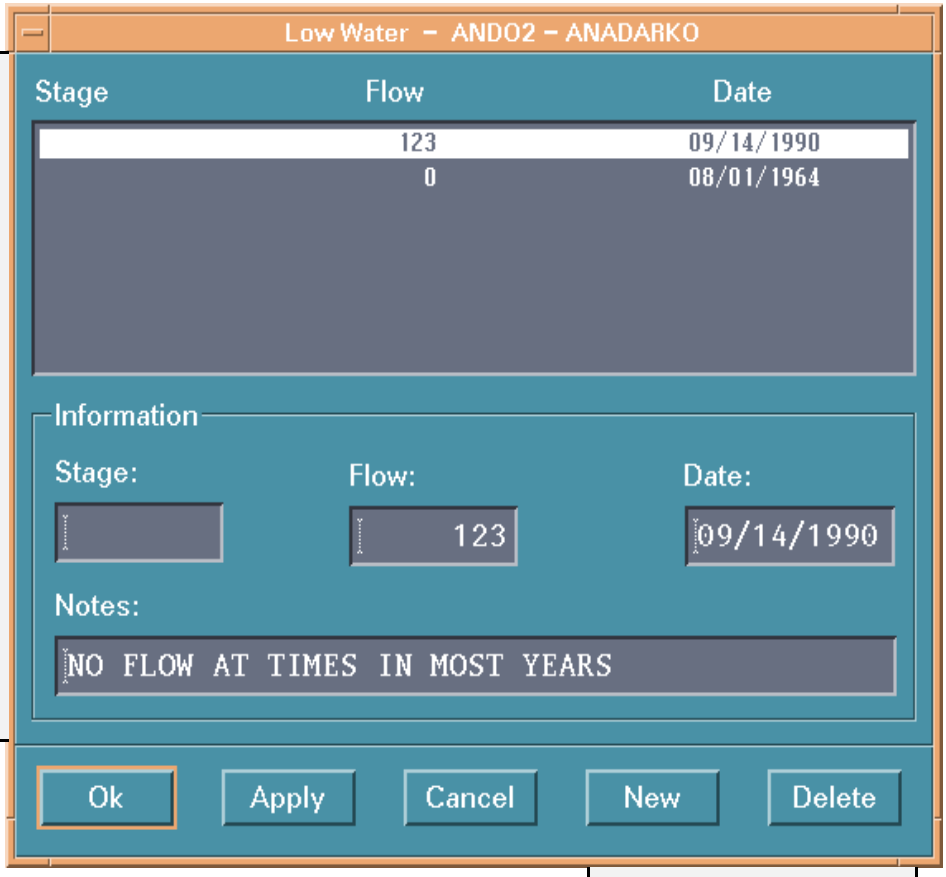
Modifying the elements and selecting Apply or OK will update the selected record - it will not create a new entry. Use New for a new entry.

This information is used by RiverPro to generate product phrases.

Low Water Window - Use this selection to view and edit data and information for historical low water occurrences for a selected station.

View and edit information.

The window lists historical low flow stages (feet) and associated discharge (cubic feet per second).



Click New to add a new record or Delete to delete a selected record.

Access this selection from the **Root Window** by *Clicking* on **RiverGage, Low Water**.

Notes:

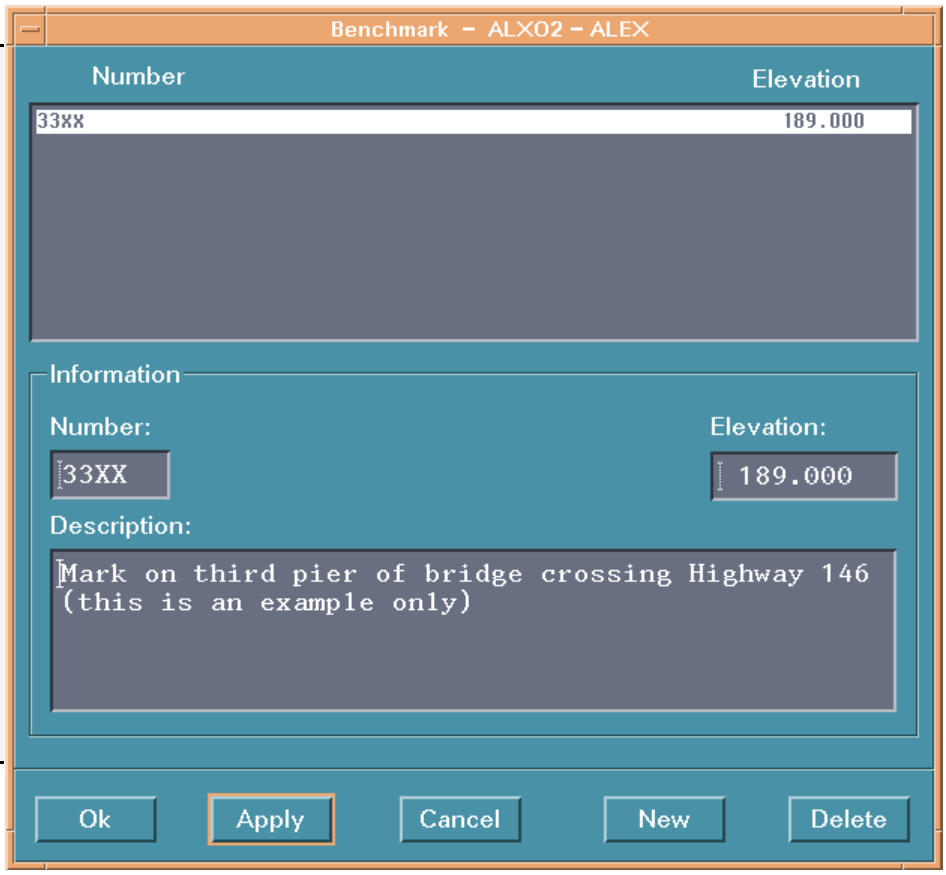
***C**lick* OK to incorporate changes and close window. *Click* Apply to incorporate changes and keep the window open.

Select New to enter data. This will clear the display of elements.

Modifying the elements and selecting Apply or OK will update the selected record - it will not create a new entry. Use New for a new entry.

Benchmark Window - Use this selection to view and edit data and information for permanent survey benchmarks for a selected station.

Highlight a benchmark and edit below.



Click New to add a new record or Delete to delete a selected record.

Access this selection from the **Root Window** by *Clicking* on **RiverGage, Benchmark**.

Notes:

***C**lick* OK to incorporate changes and close window. *Click* Apply to incorporate changes and keep the window open.

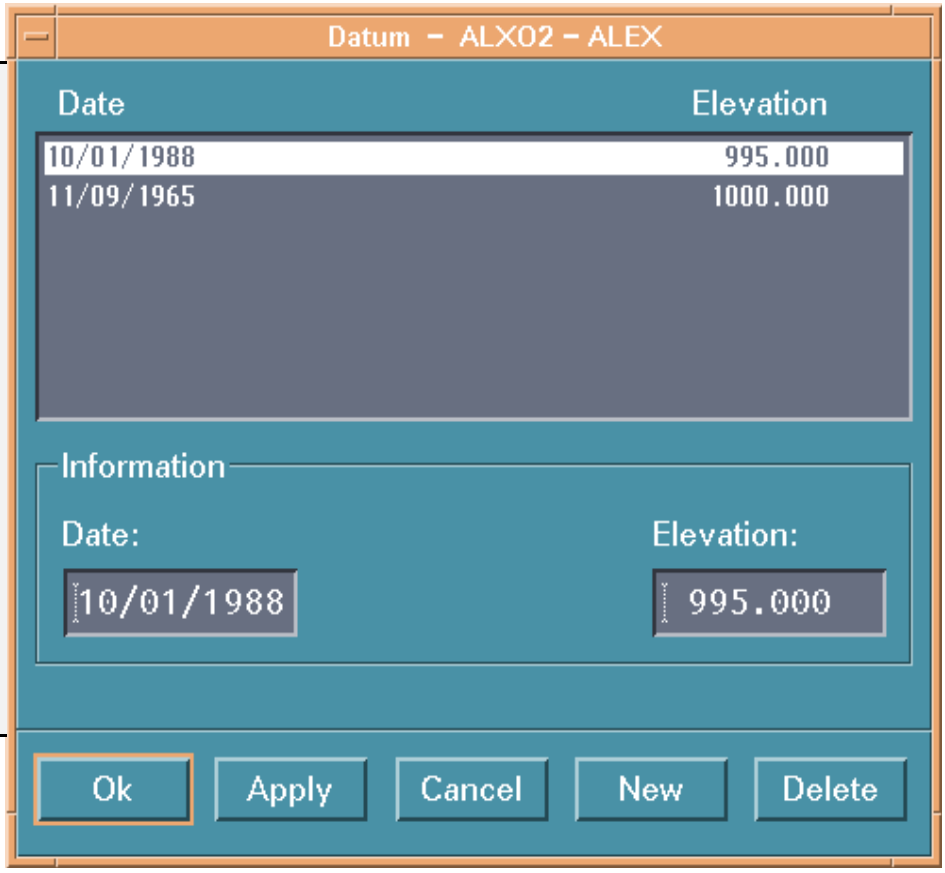
Select New to enter data. This will clear the display of elements.

Modifying the elements and selecting Apply or OK will update the selected record - it will not create a new entry. Use New for a new entry.

Datum Window - Use this selection to view and edit data and information for gage datum (elevation of gage zeros from mean sea level) for a selected station.

Highlight a datum entry and edit below.

Date refers to date when the initial datum was used. Elevation is in feet MSL of the gage zero.



Click New to add a new record or Delete to delete a selected record.

Access this selection from the **Root Window** by *Clicking* on **RiverGage, Datum**.

Notes:

***C**lick* OK to incorporate changes and close window. *Click* Apply to incorporate changes and keep the window open.

Select New to enter data. This will clear the display of elements.

Modifying the elements and selecting Apply or OK will update the selected record - it will not create a new entry. Use New for a new entry.

Description Window - Use this selection to view and edit general descriptive forecast point information for a selected station.

View and edit descriptive information for the river gage.

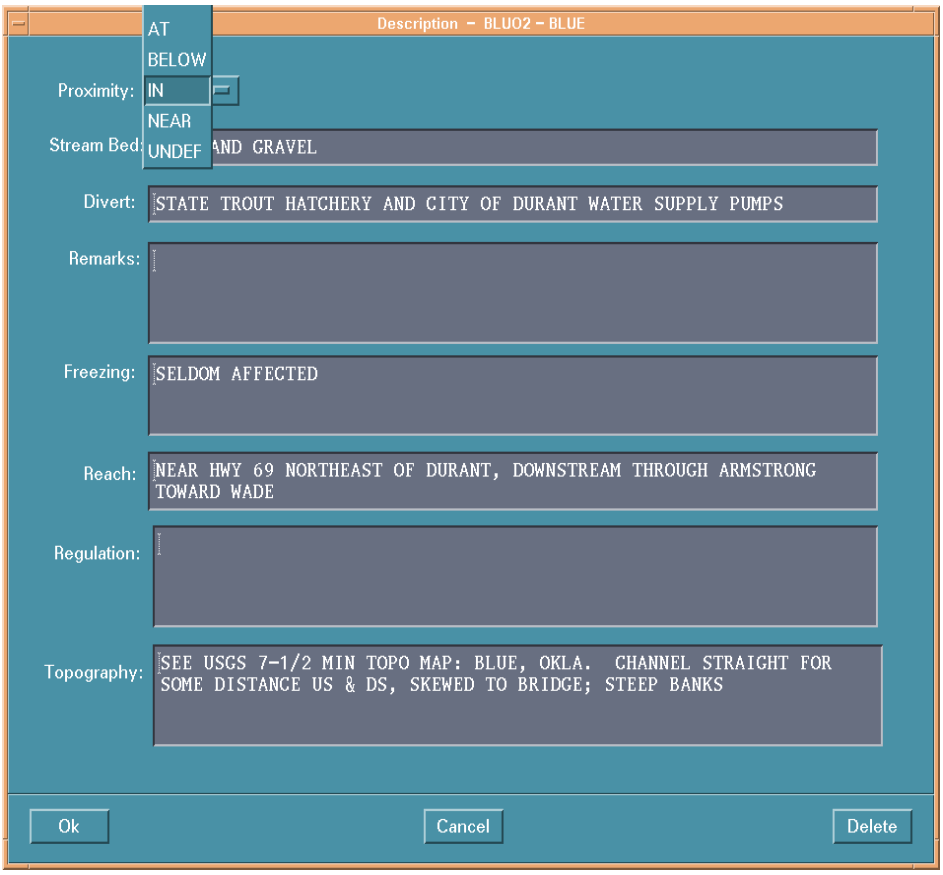
Proximity describes the proximity of the station to the actual physical location of the forecast point (Above, At, Below, In, Near, Undefined).

Divert describes any known diversions near the gaging location.

Regulation describes control structures upstream of the gaging location that impact flow.

Topography describes the topography along the river reach.

Other descriptors are self-explanatory.



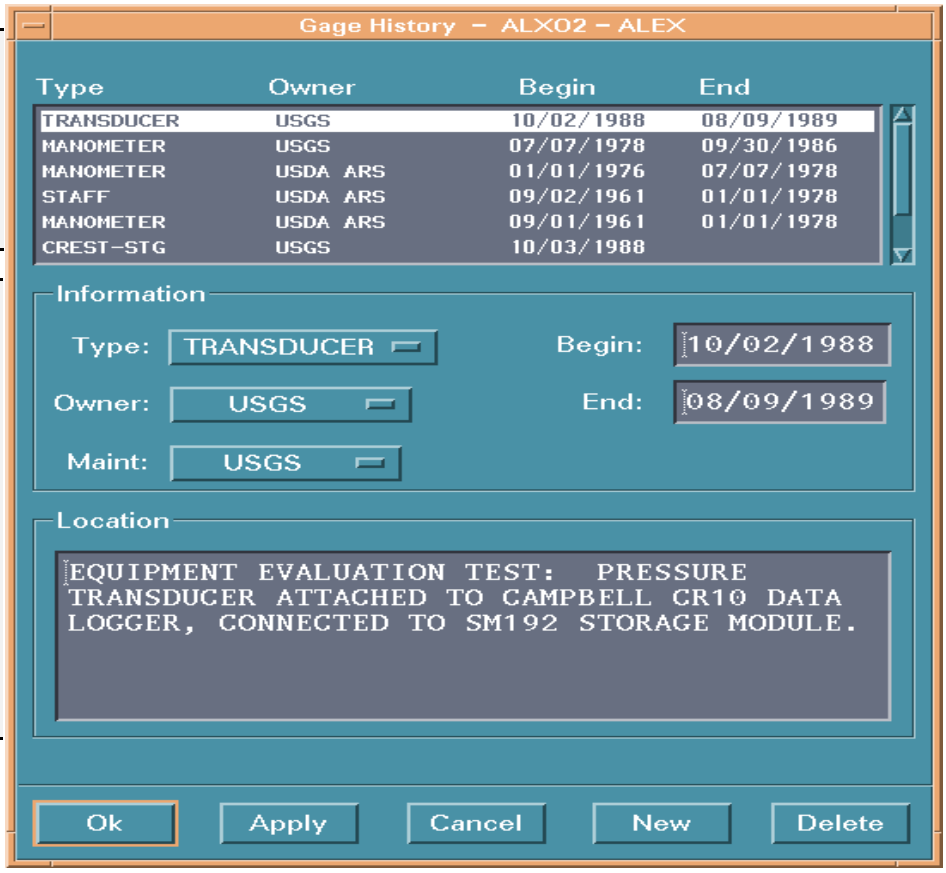
Access this selection from the **Root Window** by *Clicking* on **RiverGage, Description**.

Notes: **T**o delete a record, *Click* on Delete and respond to the confirmation prompt.
C*lick* OK to incorporate changes and close the window.

Gage History Window - Use this selection to view and edit historical gage information for a selected station.

Select entry to view information (as shown below).

View and edit gage history information for selected entry.



Click New to add a new record or Delete to delete a selected record.

Access this selection from the **Root Window** by *Clicking* on **RiverGage, Gage History**.

Notes:

***C**lick* OK to incorporate changes and close window. *Click* Apply to incorporate changes and keep the window open.

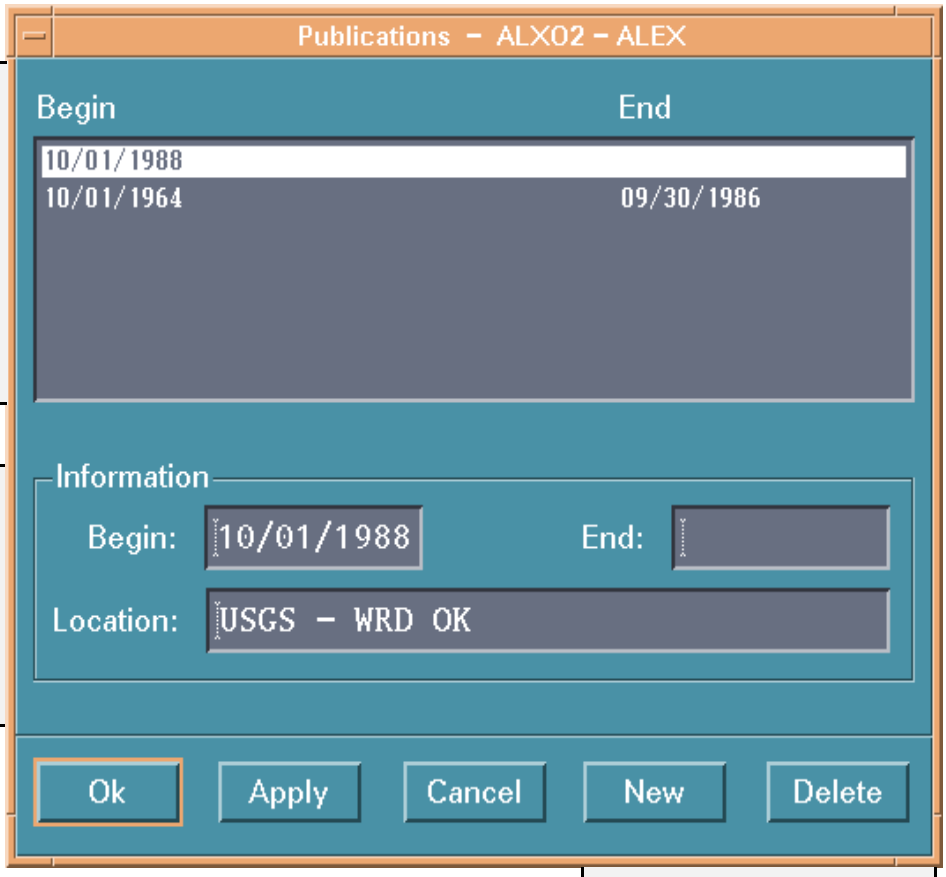
Select New to enter data. This will clear the display of elements.

Modifying the elements and selecting Apply or OK will update the selected record - it will not create a new entry. Use New for a new entry.

Publications Window - Use this selection to view and edit information about publications that contain data from the selected station.

Select a publications entry to view information (as shown below).

View and edit publications information for selected entry.



Click New to add a new record or Delete to delete a selected record.

Access this selection from the **Root Window** by *Clicking* on **RiverGage, Publications**.

Notes:

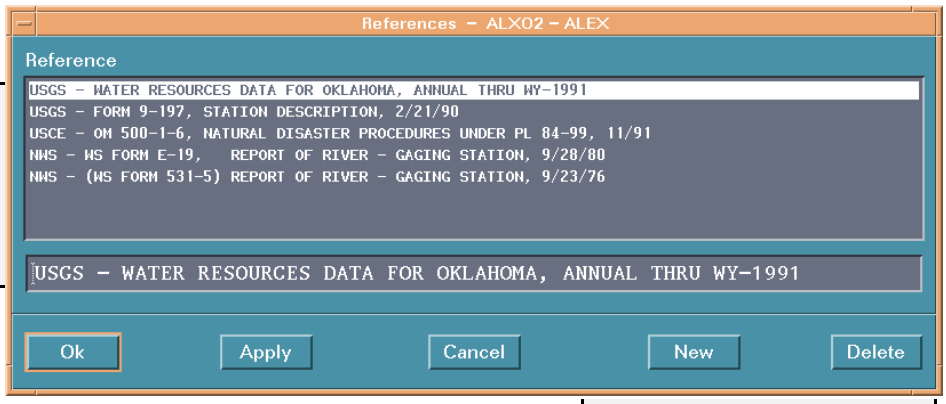
***C**lick* OK to incorporate changes and close window. *Click* Apply to incorporate changes and keep the window open.

Select New to enter data. This will clear the display of elements.

Modifying the elements and selecting Apply or OK will update the selected record - it will not create a new entry. Use New for a new entry.

References Window - Use this selection to view and edit information about references that describe where data records from the selected station are kept.

Select reference to view information (as shown below).



Click New to add a new record or Delete to delete a selected record.

Access this selection from the **Root Window** by *Clicking* on **RiverGage, References**.

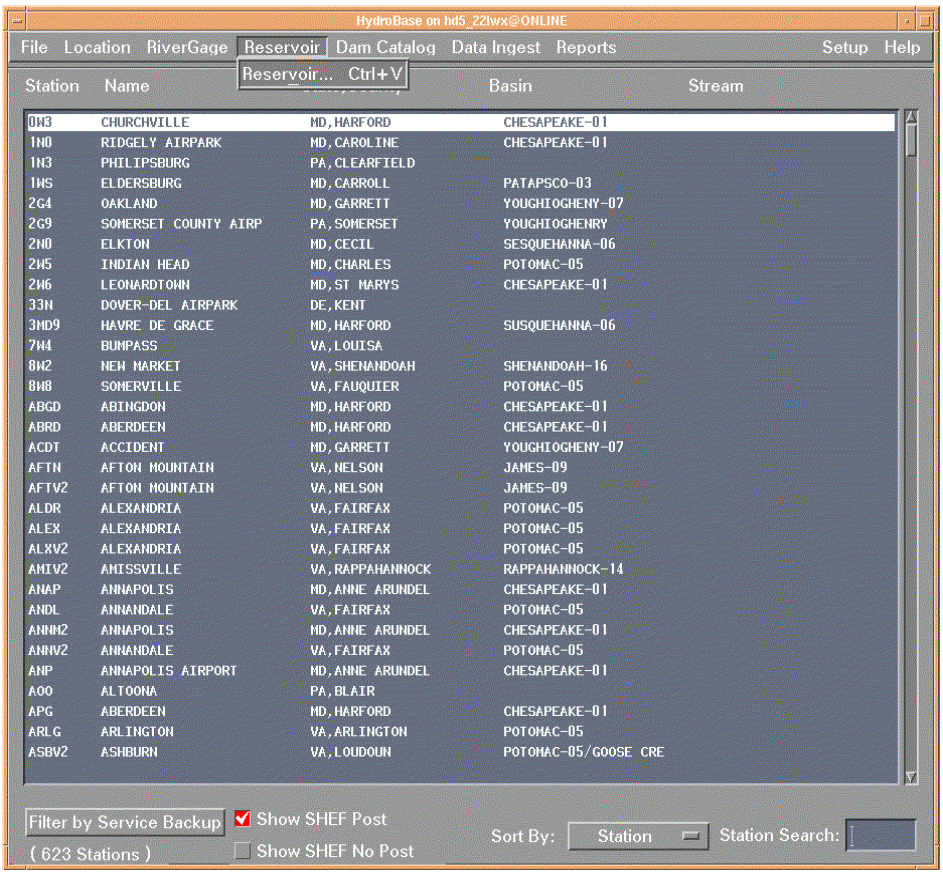
Notes:

***C**lick* OK to incorporate changes and close window. *Click* Apply to incorporate changes and keep the window open.

Select New to enter data. This will clear the display of elements.

Modifying the elements and selecting Apply or OK will update the selected record - it will not create a new entry. Use New for a new entry.

HydroBase Root Window (Reservoir selected from the Menu Bar) - Use this selection to view and edit reservoir-related information and data from the selected station.

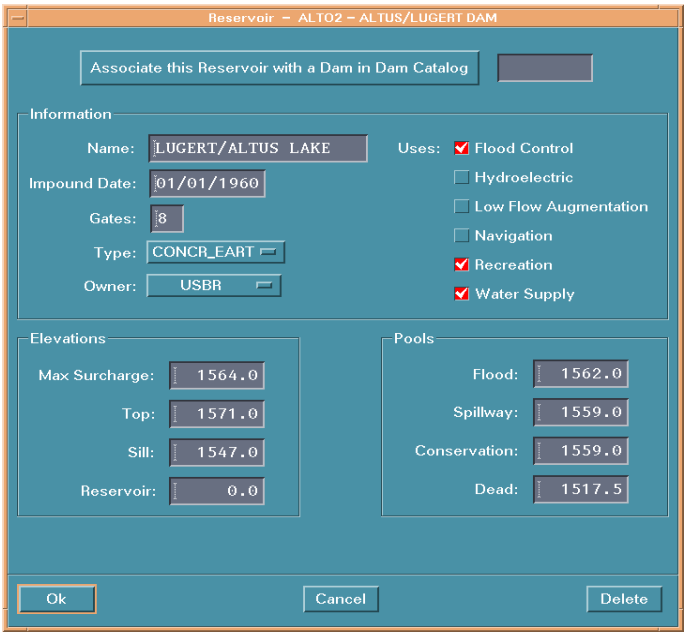


Access this selection from the **Root Window** by *Clicking* on **Reservoir**.

Reservoir Window - Use this selection to view and edit reservoir information from the selected station. A station is a reservoir station primarily by virtue of filling out this window.

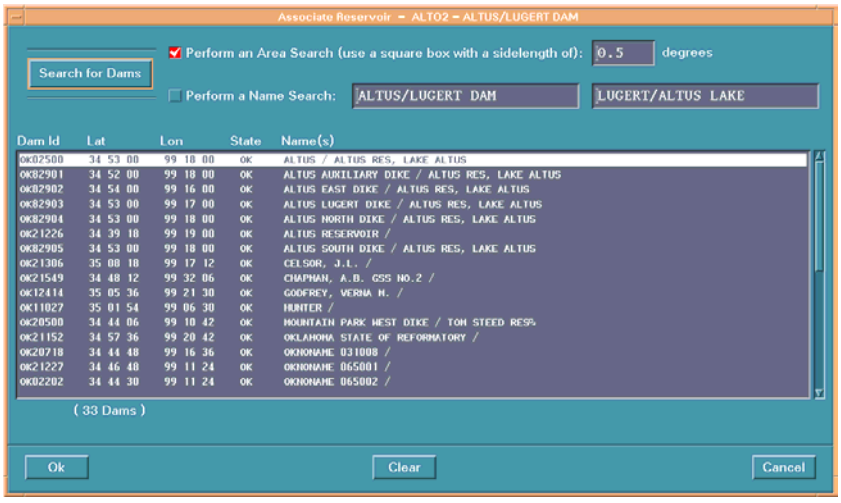
Select information to modify.

The reservoir can be associated to a particular dam through Dam Catalog by *Clicking* on **Associate this Reservoir with a Dam in Dam Catalog**. By *Clicking* on this option, the screen shown below appears. Once an associated dam has been identified (the dam ID will be displayed in the window), Dam Catalog can be used to display information regarding the dam.



Search for an associated dam within a defined area or by name. When using a name search, type in name in ALL CAPS.

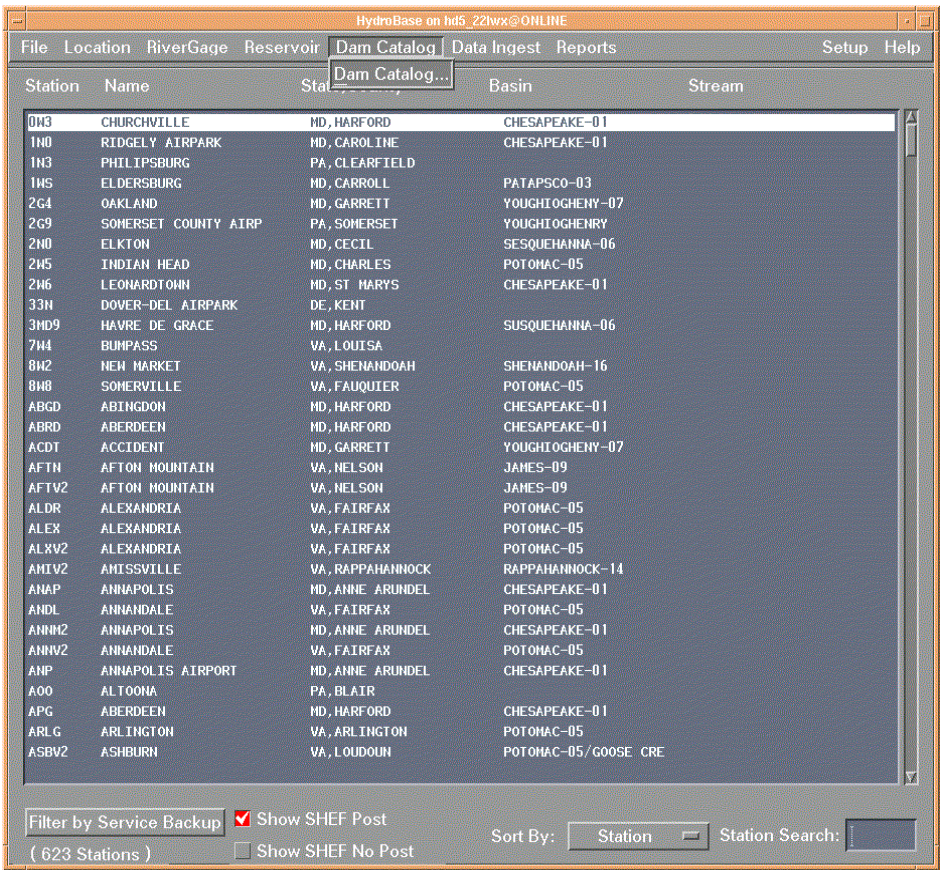
Note: There is no link between the reservoir information and Dam Catalog. The associations must be established by the designated WFO HydroBase database manager through **Reservoir**.



Access the top screen from the **Root Window** by *Clicking* on **Reservoir, Reservoir**.

Notes: To delete a record, *Click* on **Delete** and respond to the confirmation prompt.

HydroBase Root Window (Dam Catalog selected from the Menu Bar) - Use this selection to access the Dam Catalog application.



Access this selection from the **Root Window** by *Clicking* on **Dam Catalog**.

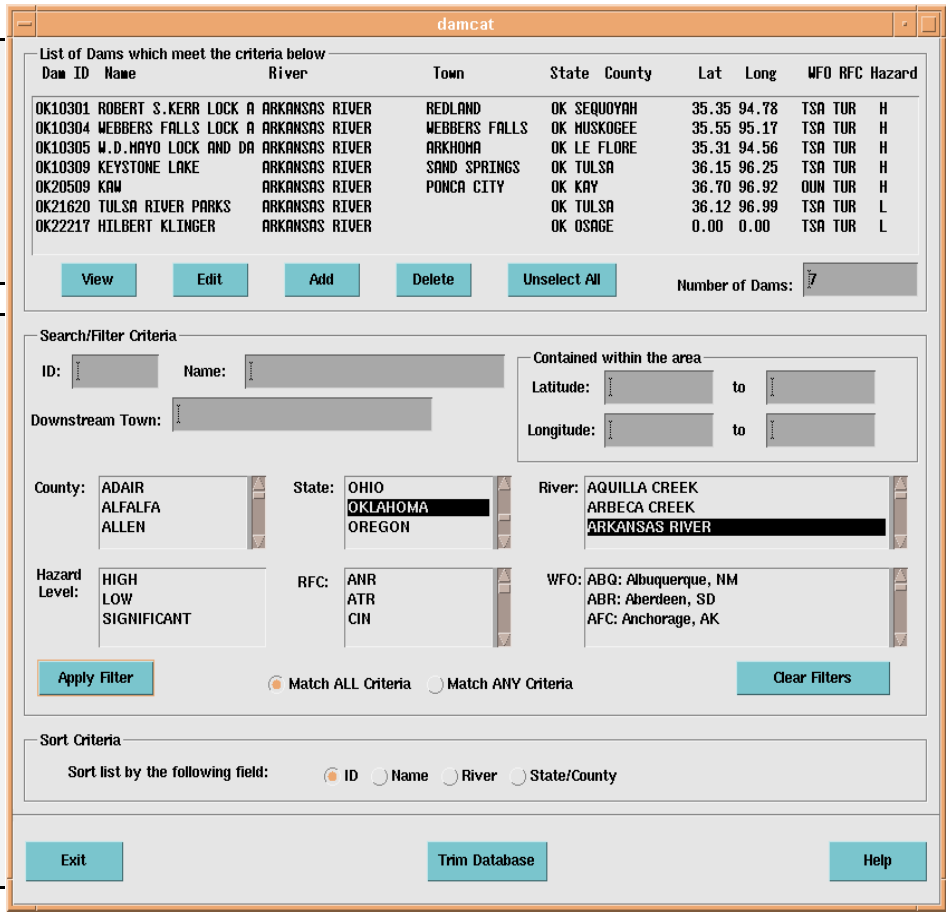
Dam Catalog Window - Use this selection to view and edit information on dams within the region of interest. The initial dam catalog window (damcat) with a filtered list of dams is shown below.

List of dams using search filter below. Use View to view dam information, Edit to make changes to the dam information, Add to complete a blank template, and Delete to delete a selected dam from the data base.

Use Search/Filter Criteria to select dam(s) to view, edit, or delete. Information that can be viewed or edited includes General Information, Physical Dimensions, Reservoir Information, Agency Information, and Dam Break Information (dam break model output).

Select the required search criteria, then *Click* Apply Filter. The dam(s) that meet the criteria will be displayed above.

Use Trim Database to selectively delete dams from the database (state-by-state basis).

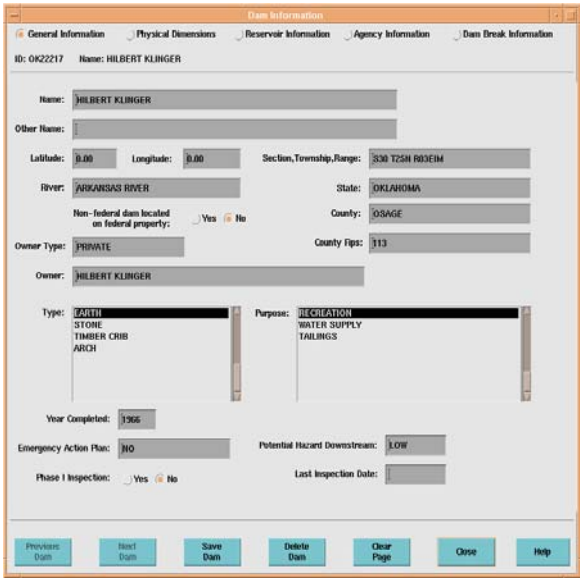


Access this selection from the **Root Window** by *Clicking* on **Dam Catalog,** then on **OK** in the **Running Dam Catalog Dialog Box**.

A list of **Dam Catalog Field Definitions** (used in this window and in dam information windows on the following page) is provided in Appendix B.

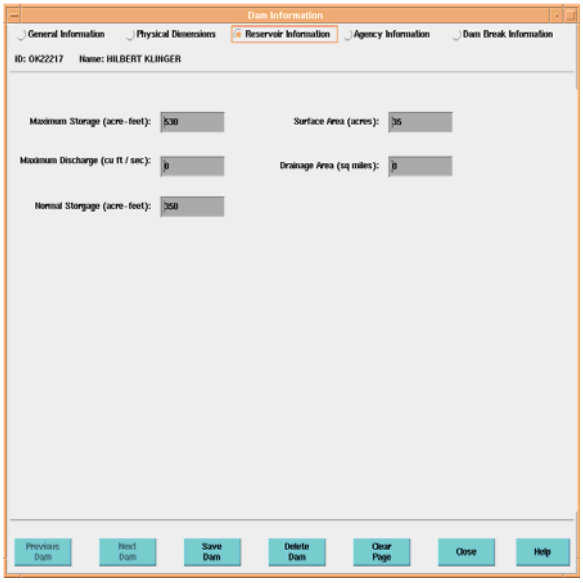
Notes: ***C**lick* on the Help button for additional information.

Dam Catalog Window (Information Examples) - Displayed below are examples of data and information available through Dam Catalog when selecting View or Edit.

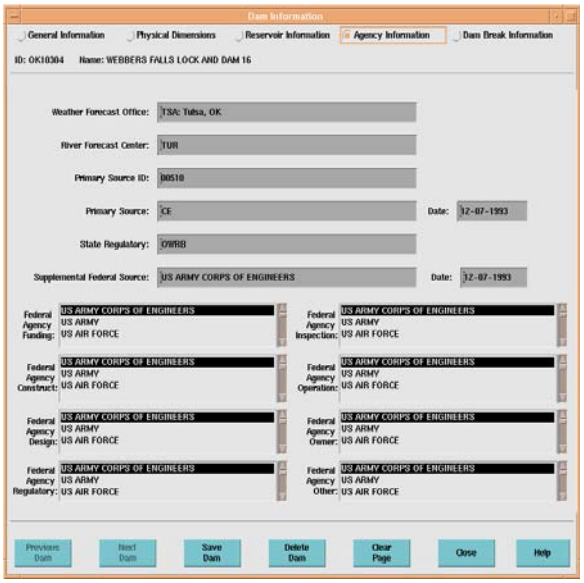


General Information

Physical Dimensions



Reservoir Information



Agency Information

Access these selections from the **Root Window** by *Clicking* on **Dam Catalog**, then, after selecting dams, on **View** or **Edit**.

Notes:

***C**lick* on the Help button for additional information.

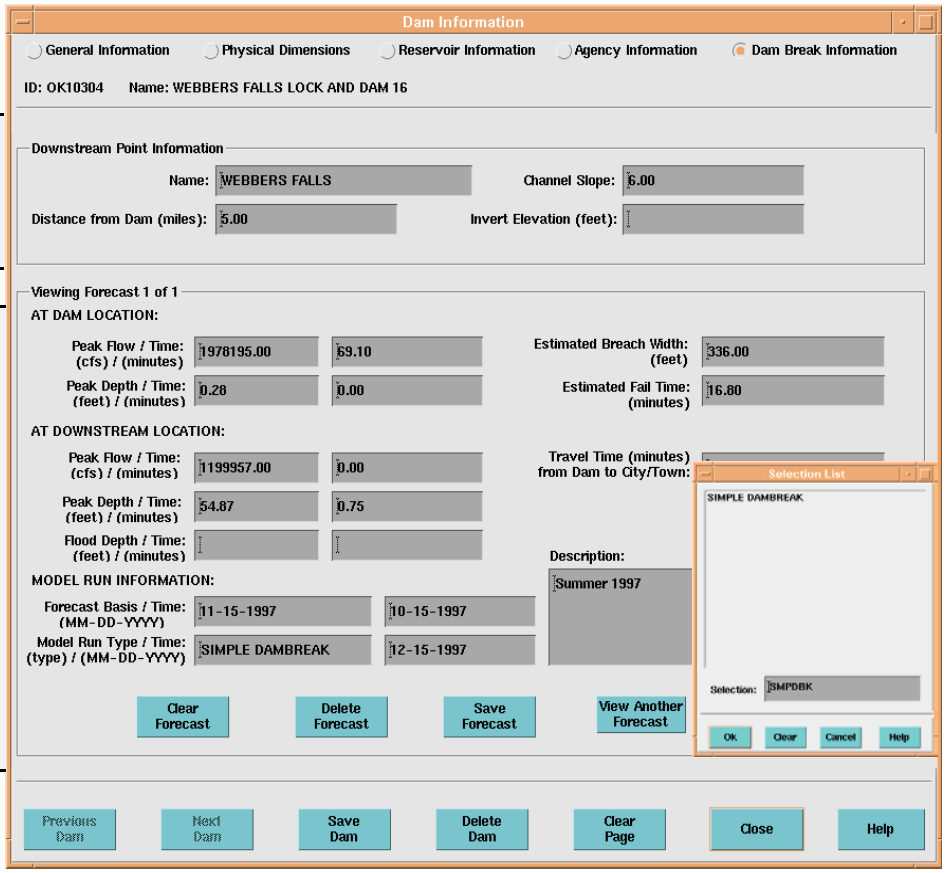
The General Information screen will always be displayed first; for other selections, *Click* the appropriate button across the top of the screen.

Dam Catalog Window (Dam Break Information Example) - Displayed below is an example of dam break forecast data and information available through Dam Break.

Downstream information.

Dam break forecast information, based on model output.

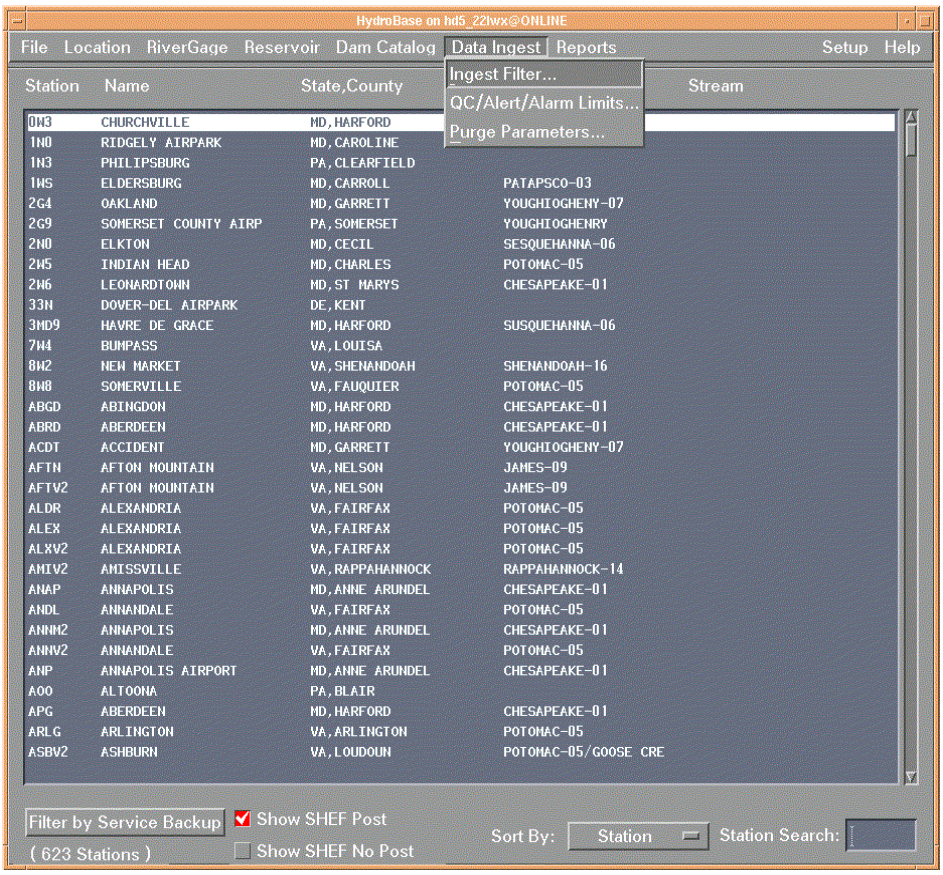
Click on View Another Forecast to see model output results from different model runs or different models, if available. When using View Another Forecast, the dialog box shown at the right will appear and other model options can be selected.



Access this selection from the **Root Window** by *Clicking* on **Dam Catalog**, then, after selecting dams, *Clicking* on **View** or **Edit**, then *Clicking* on **Dam Break Information**.

Notes:
Click on the Help button for additional information.
Simple Dambreak is set as the default model for dam break forecasts.

HydroBase Root Window (Data Ingest selected from the Menu Bar) - Use this selection to view and edit ingest filter, QC/alert/alarm limits, and purge parameters (parameters that control data flows into and data storage in HydroBase).



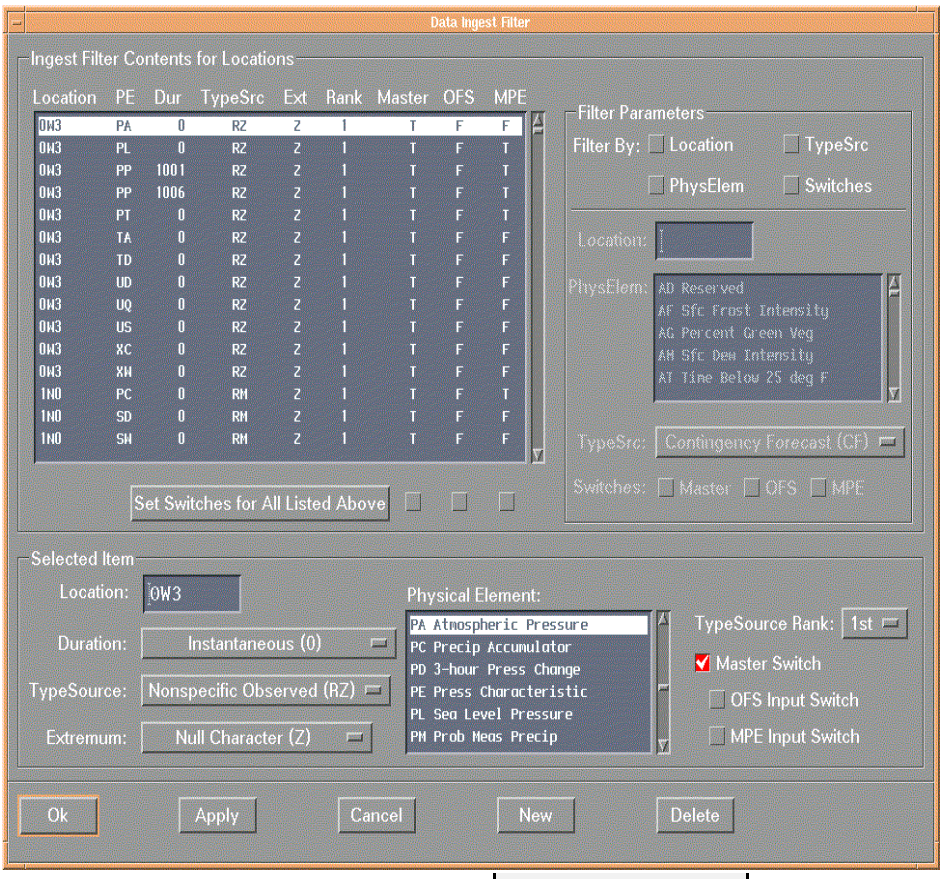
Notes: **T**he use of the windows presented in the Data Ingest pull-down menu is station-independent. (A station does not have to be selected prior to selecting a window; however, some windows require the selection of a station before viewing or editing data and information.)

Ingest Filter Window - Use this selection to view and edit ingest filter information (controls the flow of data into HydroBase).

Select station location and physical element to view and edit (as shown below).

Use Filter Parameters to filter the displayed list by location, physical element, service type, and switches (master, OFS, or MPE).

View and edit data ingest filter information.



Click New to add a new record or Delete to delete a selected record.

Access this selection from the **Root Window** by *Clicking* on **Data Ingest, Ingest Filter**.

Notes:

***C**lick* OK to incorporate changes and close window. *Click* Apply to incorporate changes and keep the window open.

Select New to enter data. This will clear the display of elements.

Modifying the elements and selecting Apply or OK will update the selected record - it will not create a new entry. Use New for a new entry.

Entries are automatically added to the data ingest information by the SHEF decoder as new data sets are processed by the WHFS.

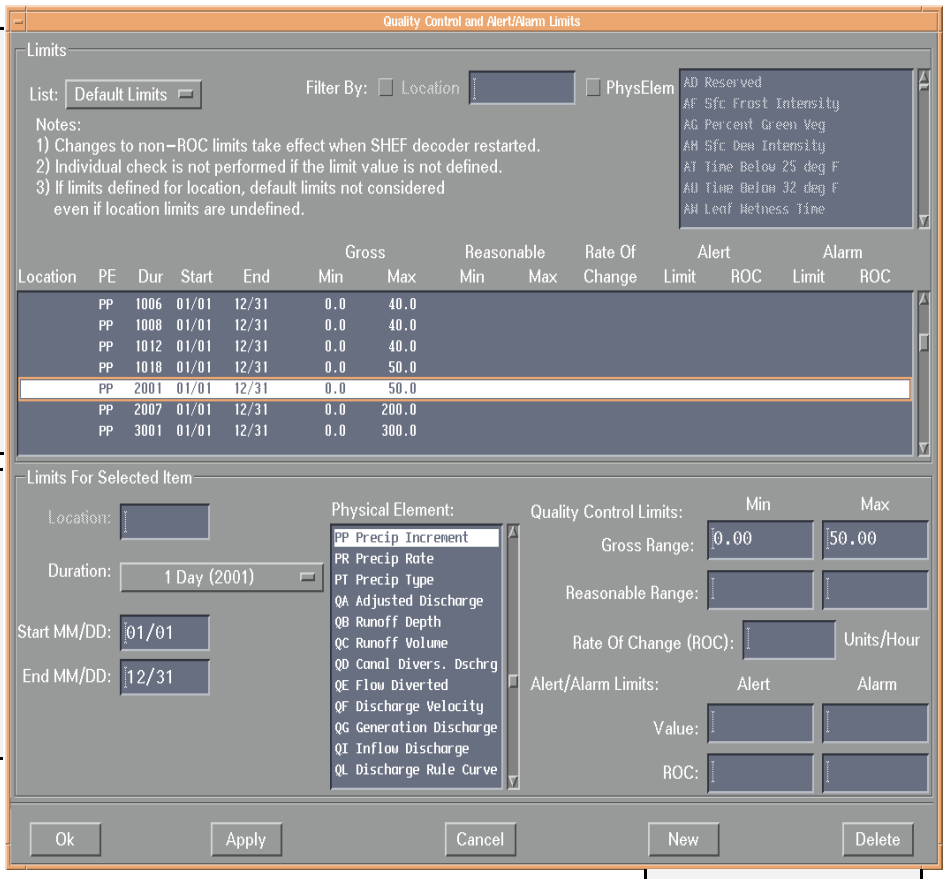
Quality Control and Alert/Alarm Limits Window - Use this selection to view and edit quality control parameters for data flowing into HydroBase.

Select the list to display (default limits or location limits).

Select station location and/or physical element to view and edit (as shown below).

Use Filter Parameters to filter the displayed list by location or physical element.

View and edit Limits information for the selected item.



Click New to add a new record or Delete to delete a selected record.

Access this selection from the **Root Window** by *Clicking* on **Data Ingest, QC/Alert/Alarm Limits**.

Notes:

***C**lick* OK to incorporate changes and close window. *Click* Apply to incorporate changes and keep the window open.

Select New to enter data. This will clear the display of elements.

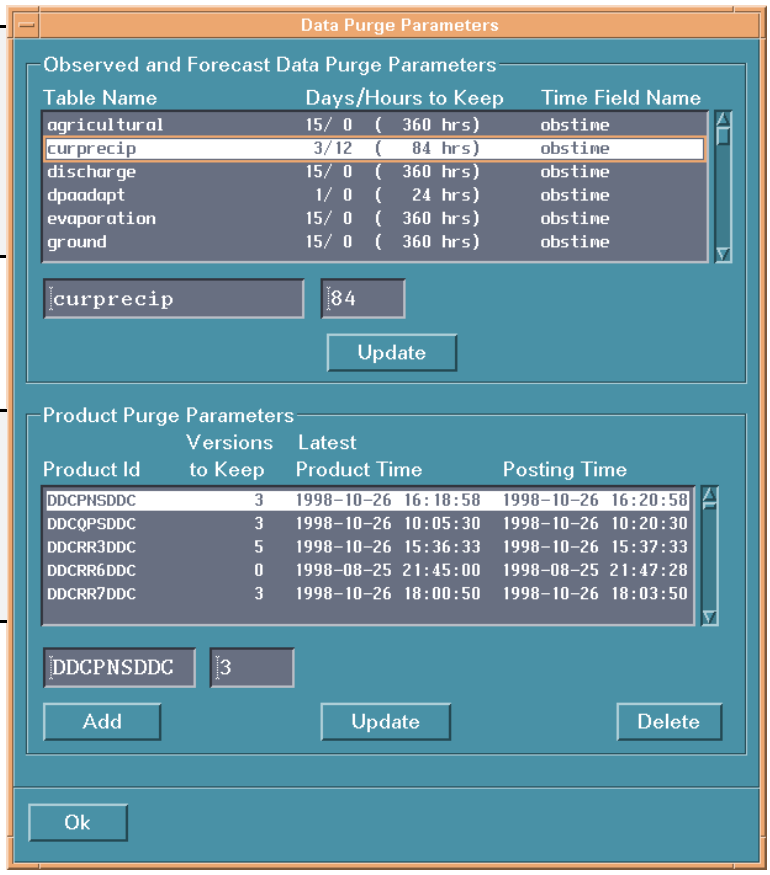
Modifying the elements and selecting Apply or OK will update the selected record - it will not create a new entry. Use New for a new entry.

When the actual range check is performed, a location-specific range is used if it exists for the location/physical element/duration combination; otherwise, the default range for the physical element/duration is used.

Purge Parameters Window - Use this selection to view and edit parameters controlling the storage requirements for observed and forecast data and products.

Select observed and forecast data table to view and edit Days/Hours to Keep (edit hours as shown below, number of days are calculated).

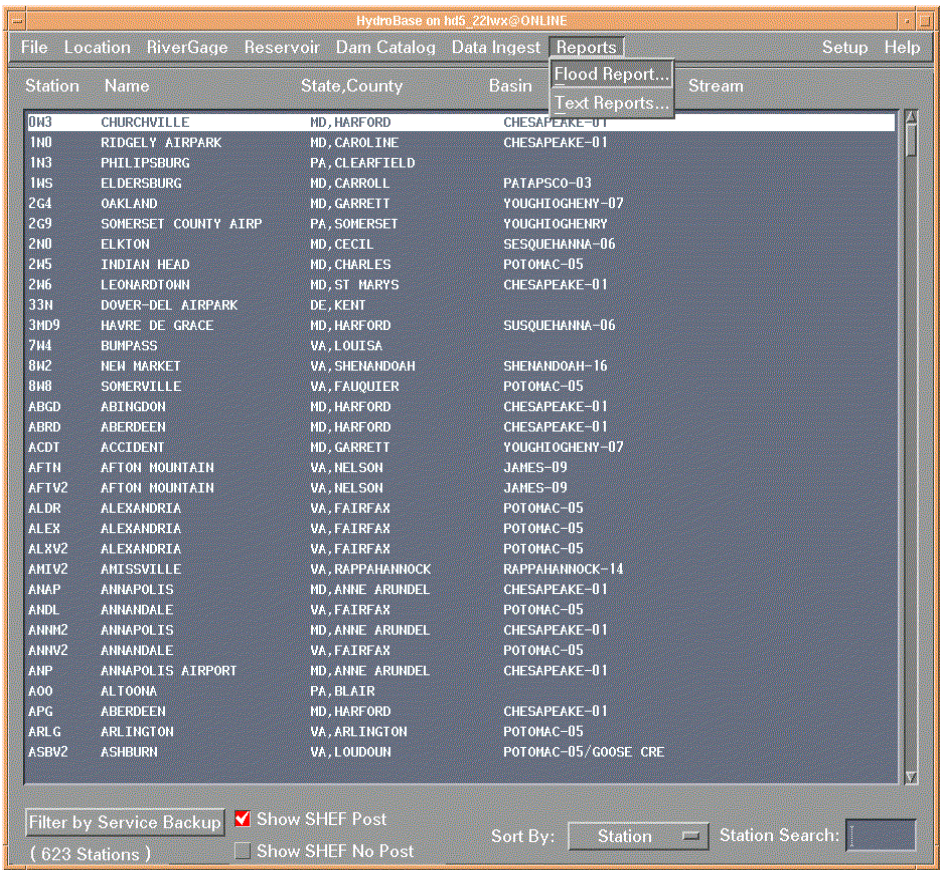
Select product ID to view and edit Versions to Keep (as shown below).



Access this selection from the **Root Window** by *Clicking* on **Data Ingest, Purge Parameters**.

Notes: Use Add to insert new Purge Parameter data and information, use Update to apply any changes, and use Delete to delete the highlighted records from the database.

HydroBase Root Window (Reports selected from the Menu Bar) - Use this selection to view flood and text reports in the database.



Access this selection from the **Root Window** by *Clicking* on **Reports.**

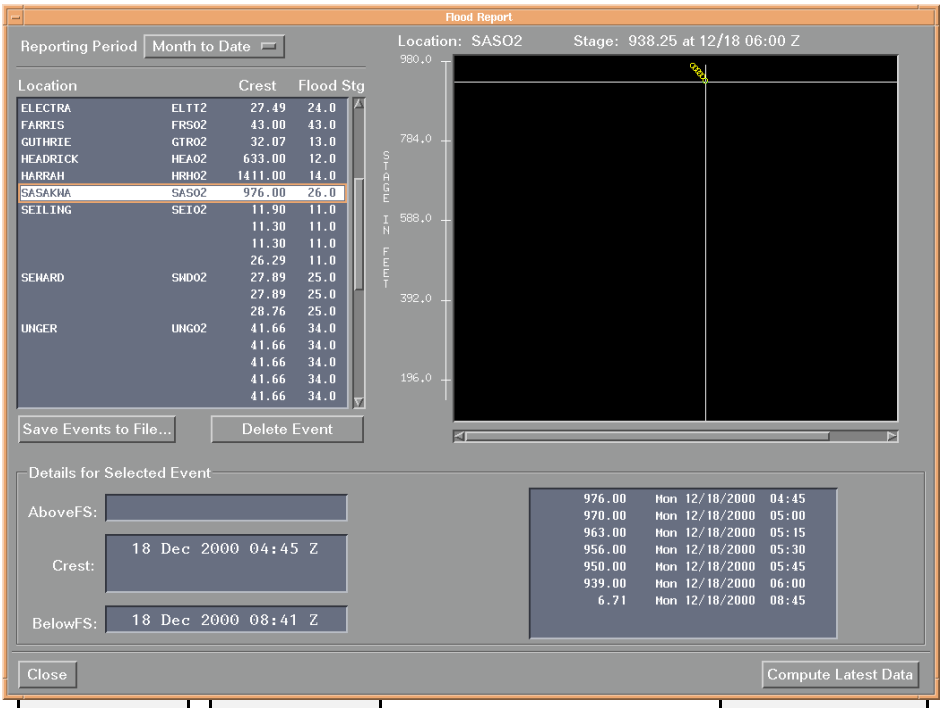
Notes: **T**ext reports can be saved or printed (see Text Reports Window).

Flood Report Window - Use this selection to view flood hydrograph information at those locations that experienced flooding during the past twelve months .

Select reporting period - year-to-date, month-to-date, the last twelve months, or any one month in the last twelve months.

Locations with flooding will be displayed in the list. *Click* on a location to display the hydrograph. Use cross-hairs to display stage information from the hydrograph.

Significant times are relative to flood threshold and maximum stage.



Select Save Events to File to make a copy of the event records to a separate disk file.

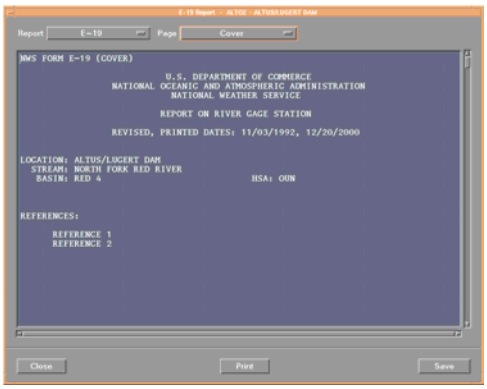
Select Delete Event to delete a selected record.

Select Refresh Data to update flood sequence for the selected location.

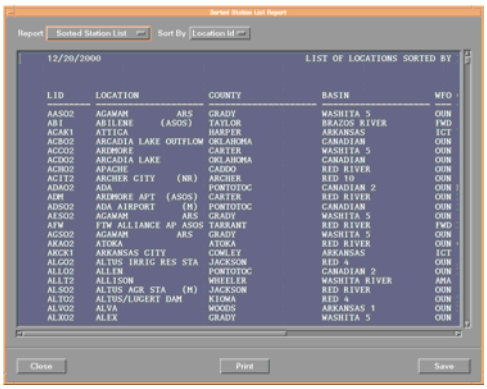
Access this selection from the **Root Window** by *Clicking* on **Reports**, **Flood Report**.

Notes: Data and information are available for the number of months retained in the *floodts* table as defined in the Purge Parameters Window (see page 5-40).

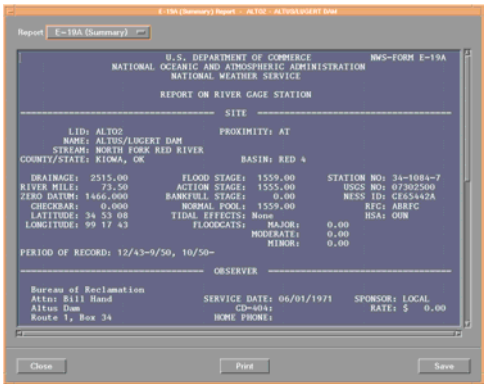
Text Reports Window - Use this selection to view E-19 reports, cooperative observer reports, a sorted station list, a station classification list, and a service backup list.



E-19

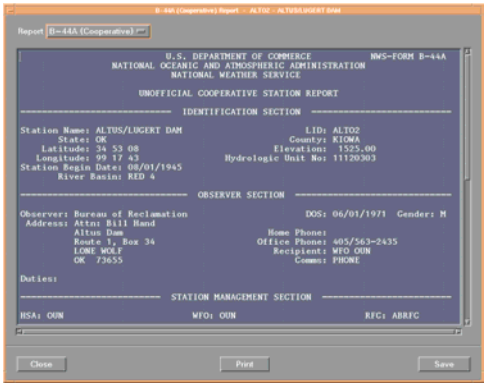


Sorted Station List

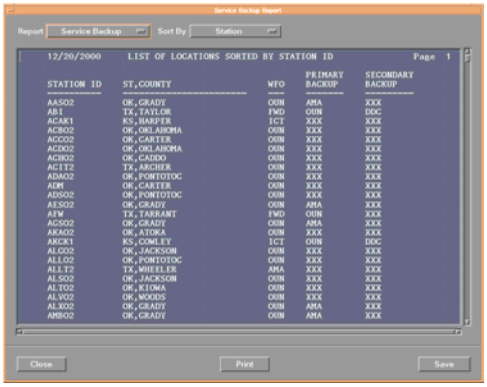


E-19A (Summary)

Station Classification



B-44A (Cooperative)

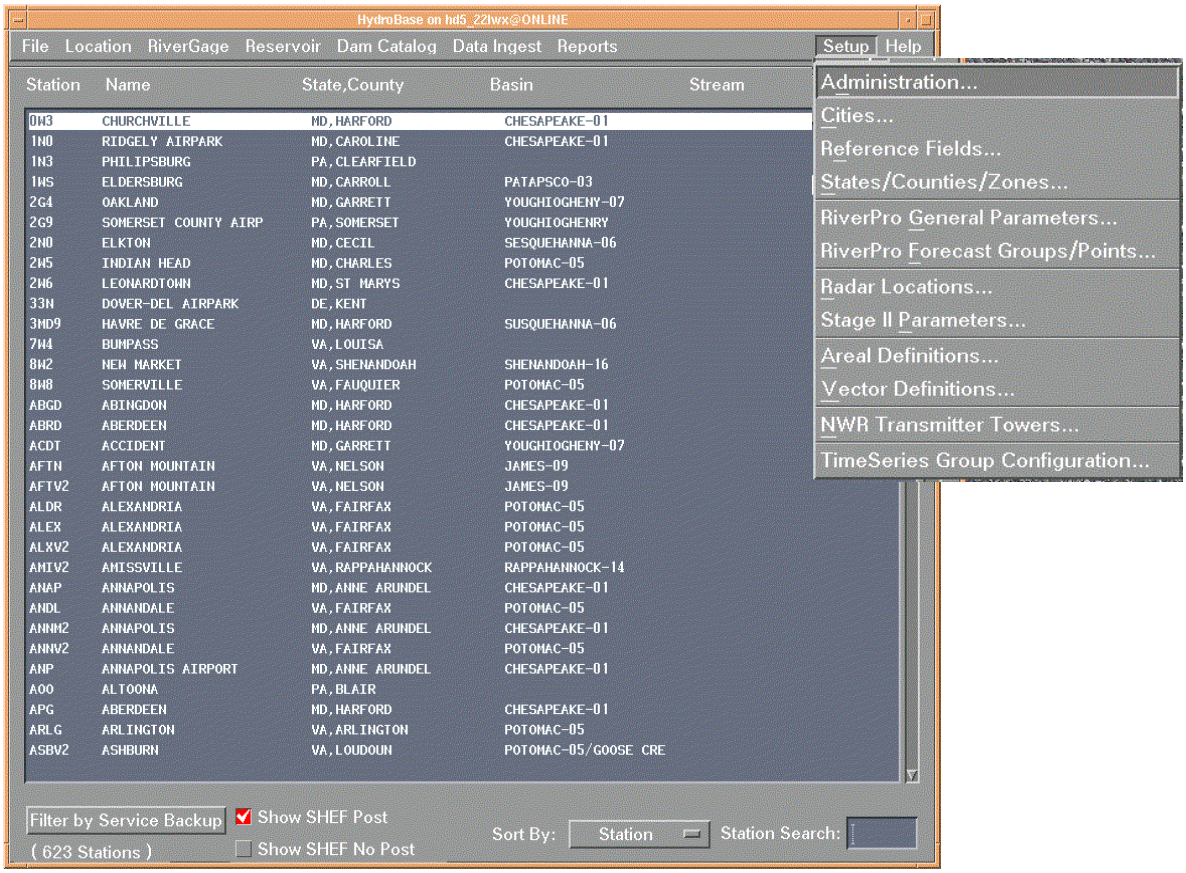


Service Backup

Access these selections from the **Root Window** by *Clicking* on **Reports**, **Text Reports**.

Notes: **U**se scrolls to display entire report.
Reports are read-only. Changes to data or information cannot be made.
Use Report pull-down menu to access the different reports.
Reports can be printed or saved to a specified file.

HydroBase Root Window (Setup selected from the Menu Bar) - Use this selection to view and edit various HydroBase reference data and information applicable to the entire HSA.



Access this selection from the **Root Window** by *Clicking* on **Setup**.

Notes: **T**he use of the windows presented in the Setup pull-down menu is station-independent (a station does not have to be selected prior to selecting a window).

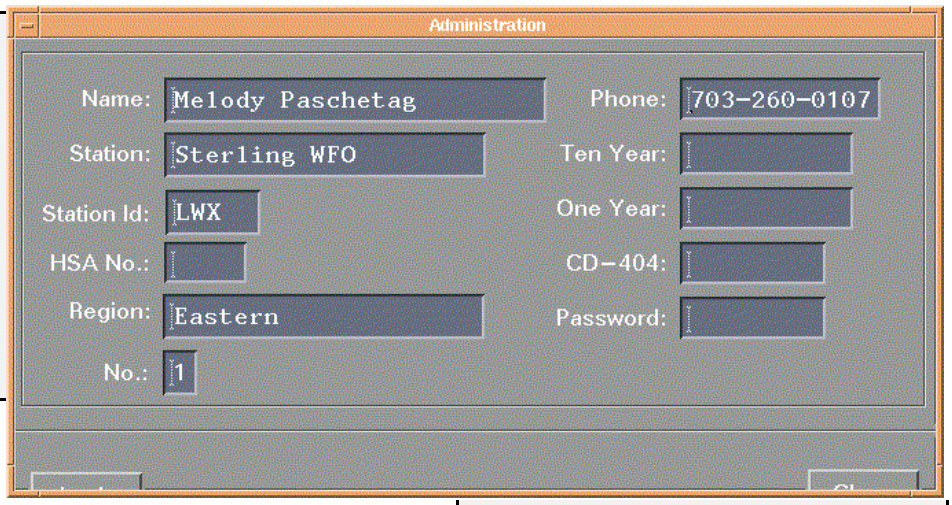
Administration Window - Use this selection to view and edit program administration information and to set the password for accessing HydroBase.

View and edit information.

Name, Station, Station ID, HSA No., Region, No. (Region No.), and phone refer to hydrologic focal point (e.g., Service Hydrologist).

Ten Year and One Year refer to E19A report dates.

CD-404 refers to the order form for paid observers.



Enter the password used for controlling access to HydroBase. All blanks indicates no password is in effect. There is only one password for all HydroBase users.

Access this selection from the **Root Window** by *Clicking* on **Setup, Administration**.

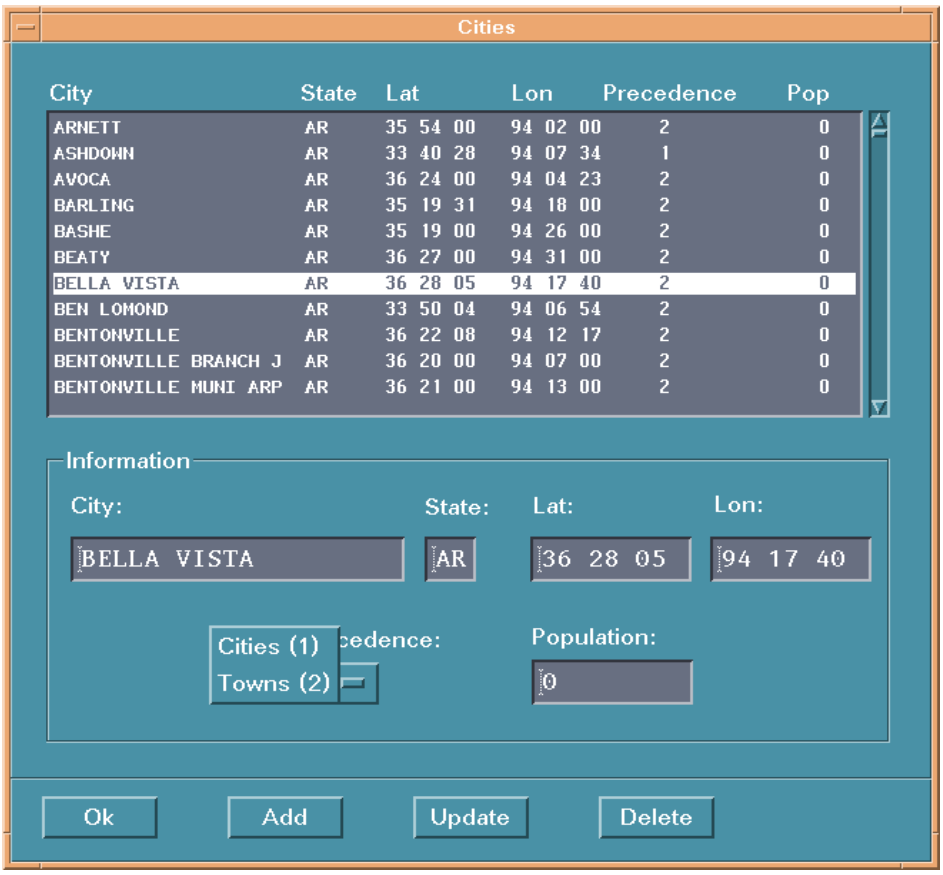
Notes: **T**his information is station-independent.
The Name/Station/Station Id/Region must be filled out for RiverPro to start up.

Cities Window - Use this selection to view and edit city and town reference information.

Select a city/town to view information (as shown below).

Precedence refers to city or town designation (1 or 2) shown in Display Precedence.

View and edit city information for the selected entry.



Click on Add, Update, or Delete to add a record, modify an existing record, or delete a record.

Access this selection from the **Root Window** by *Clicking* on **Setup, Cities**.

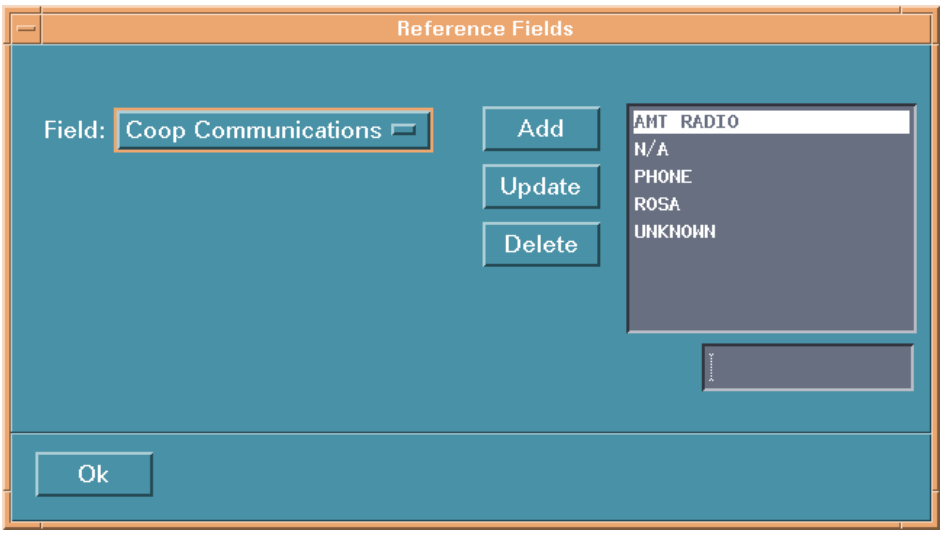
Notes: This information is station-independent.

Reference Fields Window - Use this selection to view and edit the data contributors reference information (e.g., data sources, measurement devices, equipment owners, sponsors, and supporting offices).

Select the field to view and edit.

The data field to the right of the window lists all contributors for the selected field item (not all contributors are shown).

Add, modify, or delete a contributor.



Access this selection from the **Root Window** by *Clicking* on **Setup, Reference Fields**.

Notes:

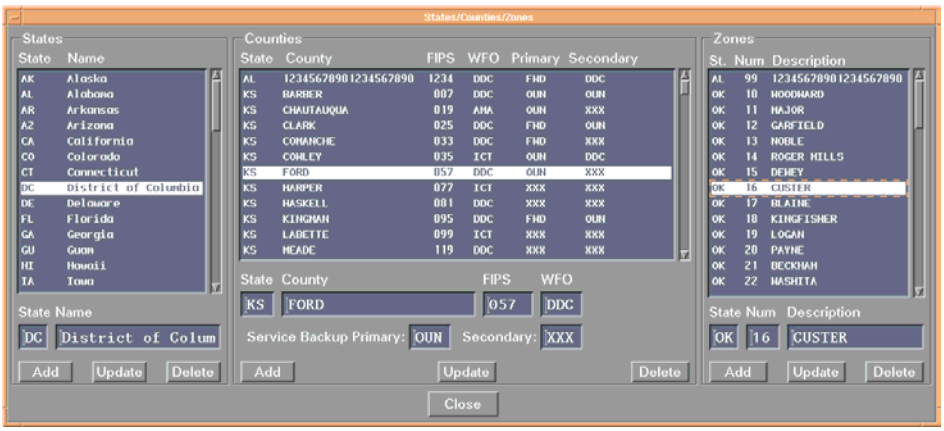
This information is station-independent.

The above field items are attributes of other windows in HydroBase. The values defined in the Reference Fields Window serve to constrain the allowable values of these fields as they appear in other HydroBase windows.

States/Counties/Zones Window - Use this selection to view and edit state, county, and zone reference information.

Select state, county, and/or zone record(s) to view (as shown below).

Add, edit, or delete record(s).



Access this selection from the **Root Window** by *Clicking* on **Setup, States/Counties/Zones**.

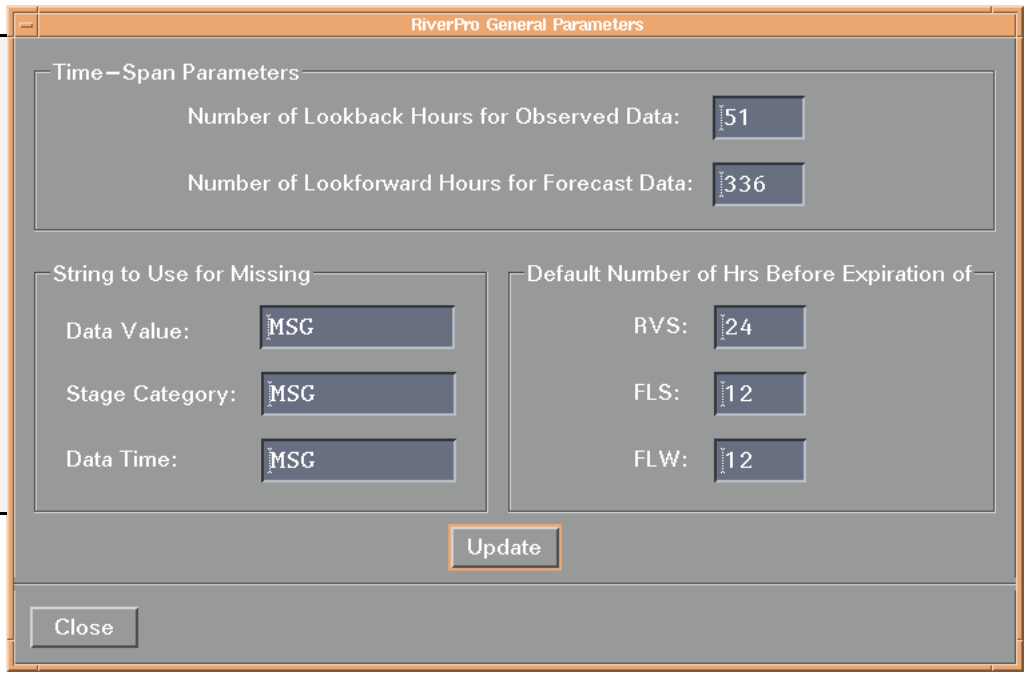
Notes:

This information is station-independent.

States/Counties/Zones must first be defined here. Once they are defined, they are then eligible to be assigned as attributes to individual points elsewhere in HydroBase.

RiverPro General Parameters Window - Use this selection to view and edit various RiverPro parameters.

Edit RiverPro configuration parameters - look back hours for observed data, look forward hours for forecast data, missing data codes, and expiration default hours for products.



Access this selection from the **Root Window** by *Clicking* on **Setup, RiverPro General Parameters.**

Notes:
This information is station-independent.
Use the Update button to record any edits.

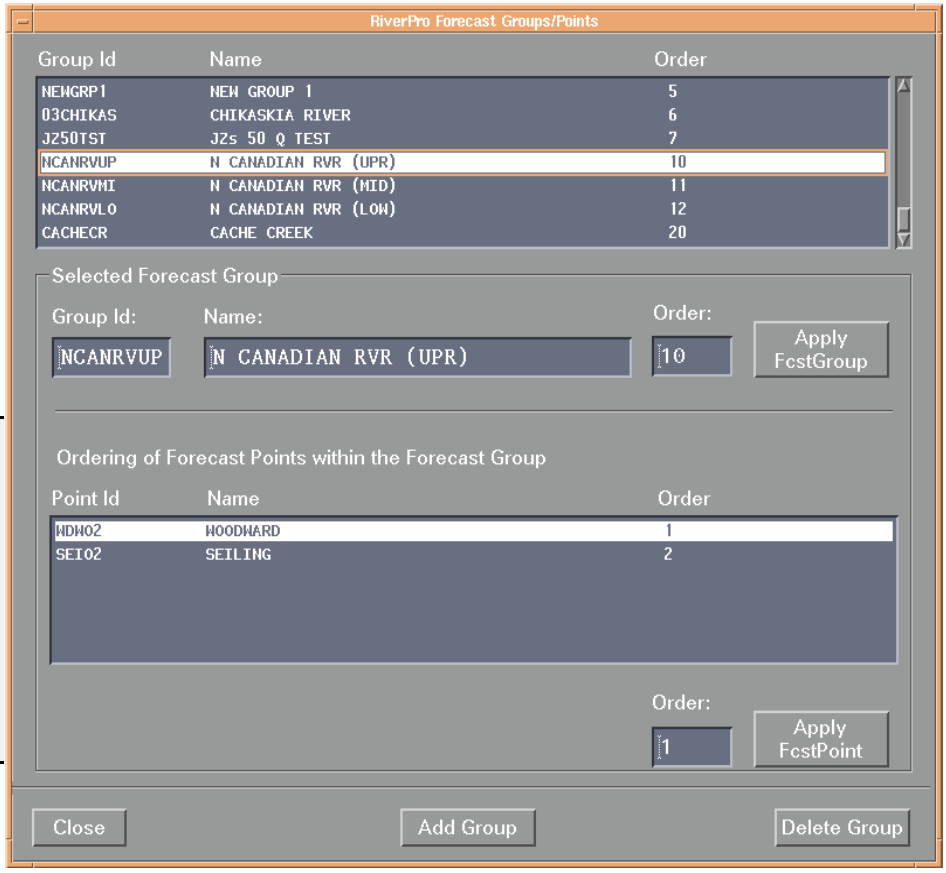
RiverPro Forecast Groups/Points Window - Use this selection to define forecast groups and to order the groups and their forecast points for tailoring RiverPro displays and generated products.

Select the forecast group to edit the order of groups for RiverPro displays and products.

Click Apply FcstGroup to record any edits.

Select the forecast point to edit the order of the point within the forecast group.

Click Apply FcstPoint to record any edits.



Use to add a new group or to delete a selected group.

Access this selection from the **Root Window** by *Clicking* on **Setup, RiverPro Forecast Groups/Points.**

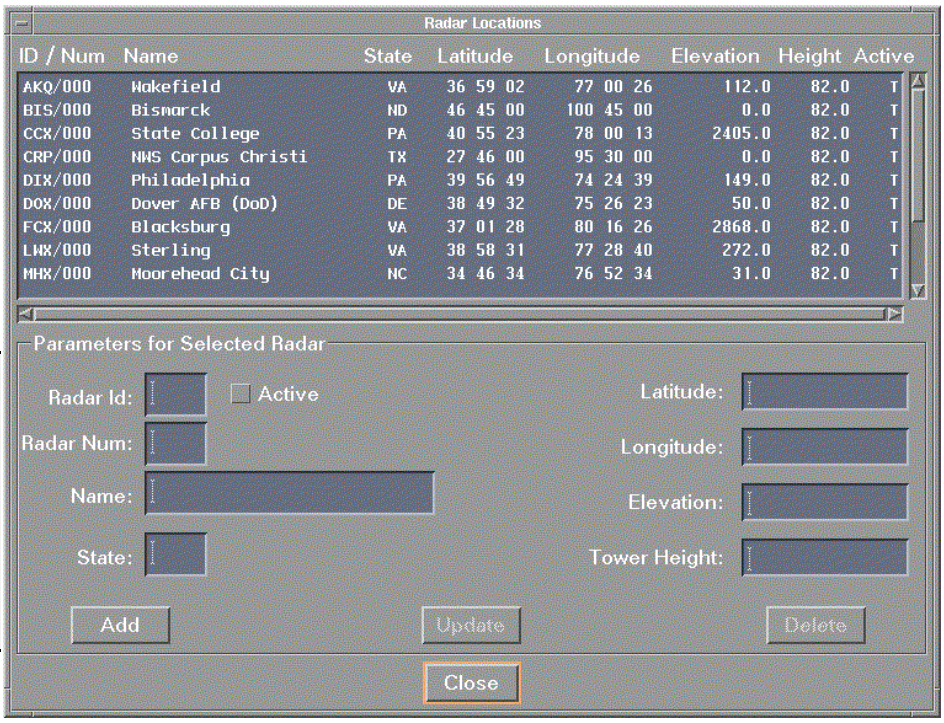
Notes: This information is station-independent.

Radar Locations Window - Use this selection to view and edit information and data for radars within the HSA.

Select radar to view information (as shown below).

View and edit radar information.

Add, modify, or delete records.



Access this selection from the **Root Window** by *Clicking* on **Setup**, **Radar Locations**.

Notes: **T**his information is station-independent.

Stage II Parameters Window - Use this selection to view and edit information and data for Stage II parameters for selected radars within the HSA.

Select radar to view information (as shown below).

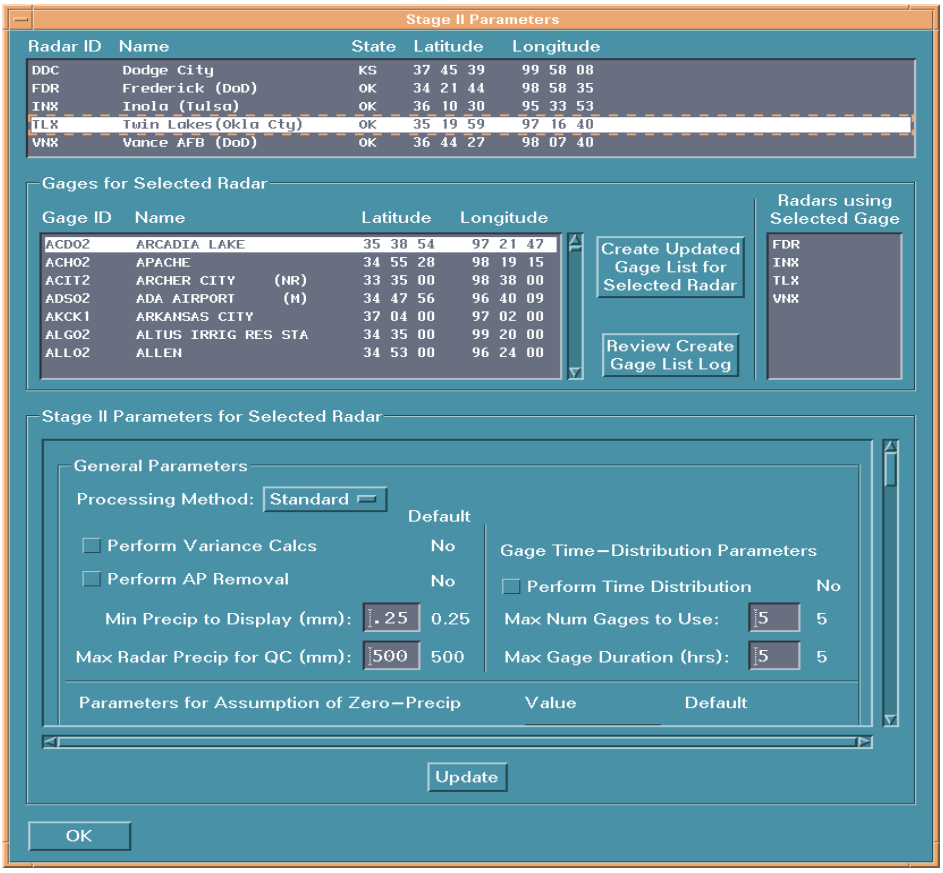
View gages used in Stage II processing for selected radar.

Edit and update gage list.

All radars using the selected gage are displayed.

View and edit Stage II parameters for the selected radar.

Scroll to view all Stage II parameters.



Access this selection from the **Root Window** by *Clicking* on **Setup, Stage II Parameters**.

Notes: This information is station-independent.

Areal Definitions Window - Use this selection to view and edit areal definition information and data for zones, counties, basins, and reservoirs within the HSA.

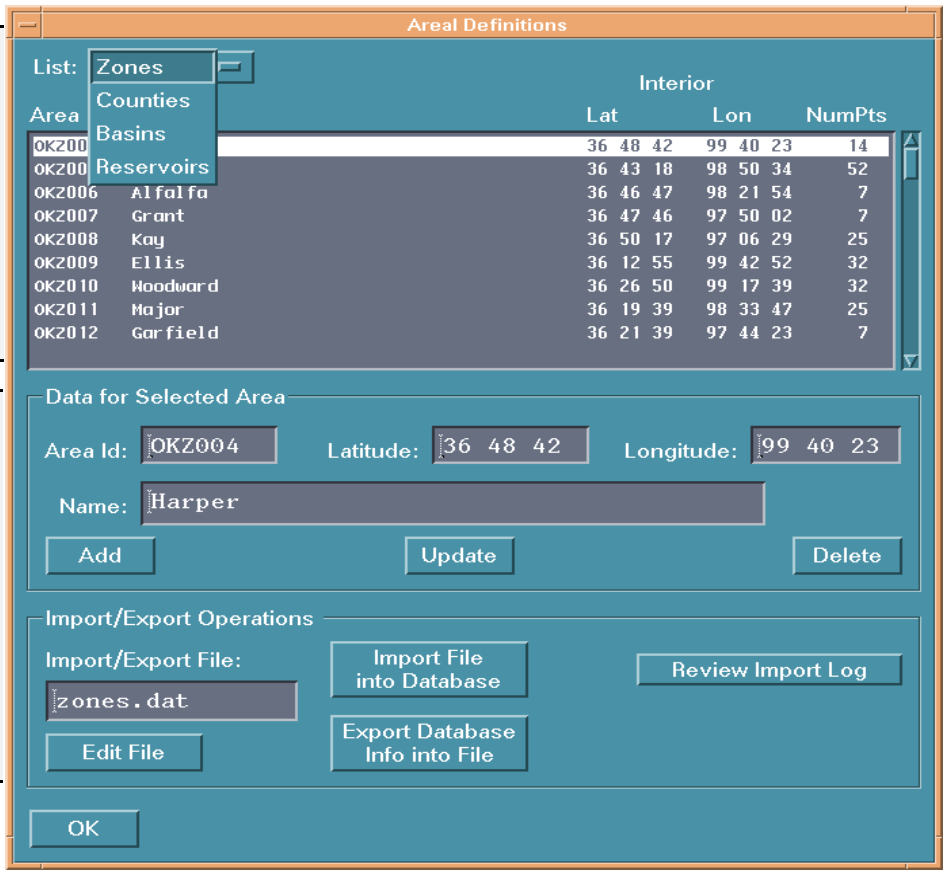
Select the area location type and the area to view information (as shown below).

NumPts refers to the number of latitude and longitude pairs used to define the outline of the area.

View and edit area information.

Use Edit File to edit latitude and longitude pairs that define the outline of the selected area.

Use Review Import Log to view dates of changes to the data files.



Access this selection from the **Root Window** by *Clicking* on **Setup, Areal Definitions**.

Notes:

This information is station-independent.

The import of data into the database from a file (Import/Export Operations) may take 5-15 seconds to complete.

ASCII files of the base data for the map overlays are located in the */awips/hydroapps/whfs/local/data/geo* directory.

Vector Definitions Window - Use this selection to view and edit vector definition information and data for rivers, streams, highways, and roads within the HSA.

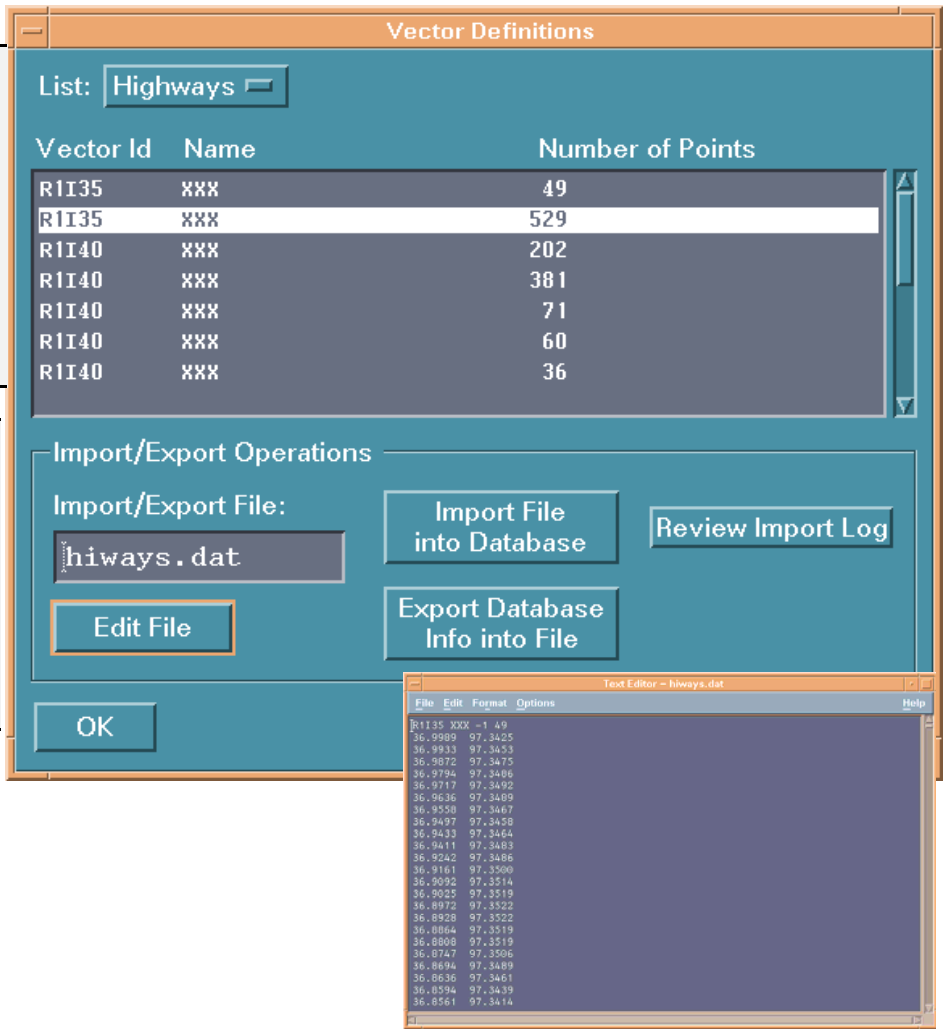
Select the vector location type and the vector to view information (as shown below).

Number of Points refers to the number of latitude and longitude pairs used to define the vector.

View and edit vector information.

Use Edit File to edit latitude and longitude pairs that define the selected vector.

Use Review Import Log to view dates of changes to the data files.



Example Data File

Access this selection from the **Root Window** by *Clicking* on **Setup, Vector Definitions**.

Notes:

This information is station-independent.
ASCII files of the base data for the map overlays are located in the */awips/hydroapps/whfs/local/data/geo* directory.

NWR Transmitter Window - Use this selection to view and edit NOAA Weather Radio (NWR) transmitter information.

Select a specific transmitter, then edit the appropriate field(s) in the work space below. Use Clear to clear all data and information, use Delete to delete the transmitter from the data base, and use Apply to effect the changes.

County coverage can be modified by adding a county from the Available Counties list or deleting a highlighted county.

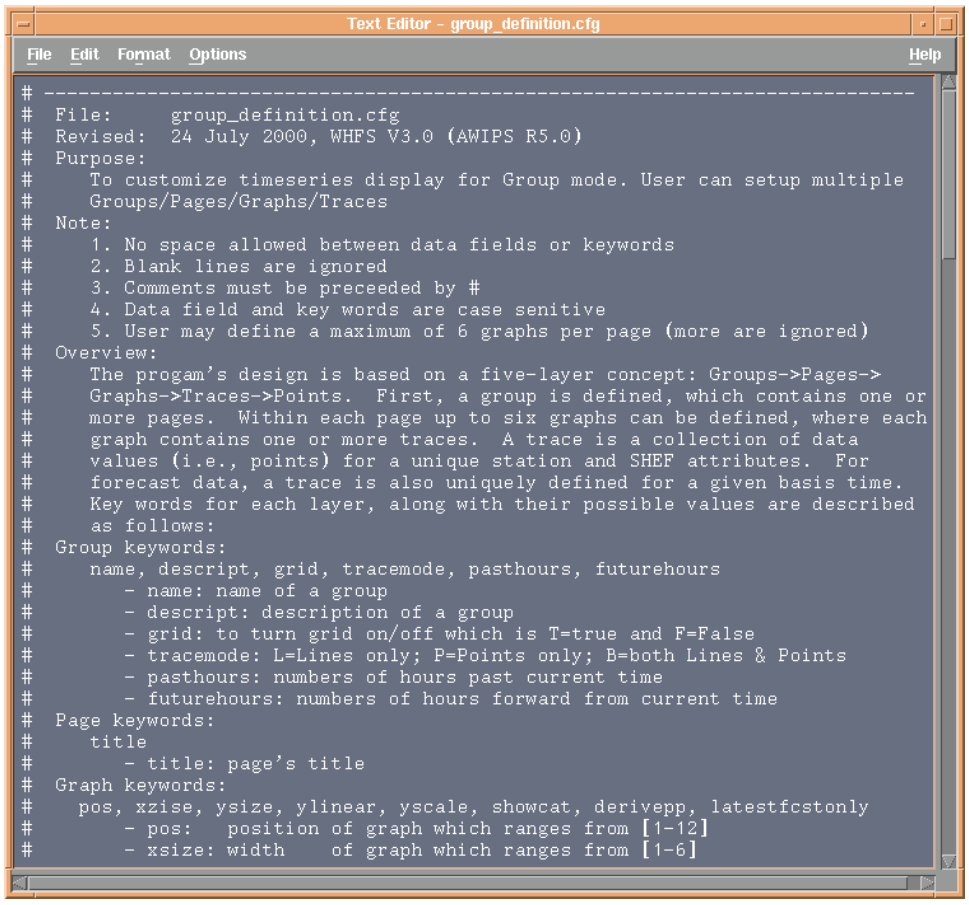
Access this selection from the **Root Window** by *Clicking* on **Setup, NWR Transmitter Towers**.

Notes:

This information is station-independent.

Transmitter information must be properly defined for RiverPro to create NWR products. See Chapter 5 of the *RiverPro Reference Manual* for additional information. (The *RiverPro Reference Manual* has been included as Appendix A of this manual)

Time Series Group Configuration Window - Use this selection to configure and edit grouped time series displays.



Access this selection from the **Root Window** by *Clicking* on **Setup, Time Series Group Configuration**.

Notes: **M**ore information about the configuration and use of time series groups is contained in Appendix C, *WHFS Time Series Function*. In addition, information may be found on the WHFS Support web page. Specifically, see: *http://www.nws.noaa.gov/oh/hod_whfs/Build_5/ts_config_grp_defn.htm*.